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Canada
Oceanographic Data Centre
Data Record Series

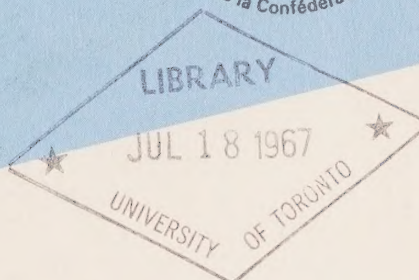


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Government
Publications



GULF OF ST. LAWRENCE

September 16, to October 16, 1965

No. 1

1967 Data Record Series

Canadian Oceanographic Data Centre

Programmed by the
Canadian Committee on Oceanography

1967

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CANADIAN OCEANOGRAPHIC DATA CENTRE

ERRATA

TO

Publication Nos. 5,6 and 8, 1967 Data Record Series

Ocean Weather Station "P" North Pacific Ocean

CODC REF. NOS:

02-66-004, 02-66-006 (May 27-Aug 10, 1966);

02-66-007, 02-66-008 (Aug 5-Oct 31, 1966);

02-66-009, 02-66-010 (Oct 28, 1966-Jan 9, 1967)

All sounding depths shown in Tables 1 and 2, Section IV of these data records should read "metres" not "fathoms".

Publication No. 8, 1967 Data Record Series

Ocean Weather Station "P" North Pacific Ocean

Oct 28, 1966 - Jan 9, 1967,

CODC REF. NOS: 02-66-009, 02-66-010

Inside back cover:

No. 6 should read Ocean Weather Station "P" 02-66-007
02-66-008

No. 7 should read Baffin Bay, 1963 10-63-005

GULF OF ST. LAWRENCE

September 16, to October 16, 1965

CODC Reference: 10-65-006

No. 1

1967 Data Record Series

Canadian Oceanographic Data Centre

615 Booth St., Ottawa, Canada

Programmed by the Canadian Committee on Oceanography



DEPARTMENT OF ENERGY, MINES AND RESOURCES

GULF OF ST. LAWRENCE

Ship:	MV "Theta"
Local Cruise designation:	BIO 2865
Cruise period:	September 16 - October 16, 1965
Scientist-in-Charge:	W.D. Forrester
Observers:	D. Dobson
	W.I. Farquharson
	D.J. Lawrence
	F.D. Ewing

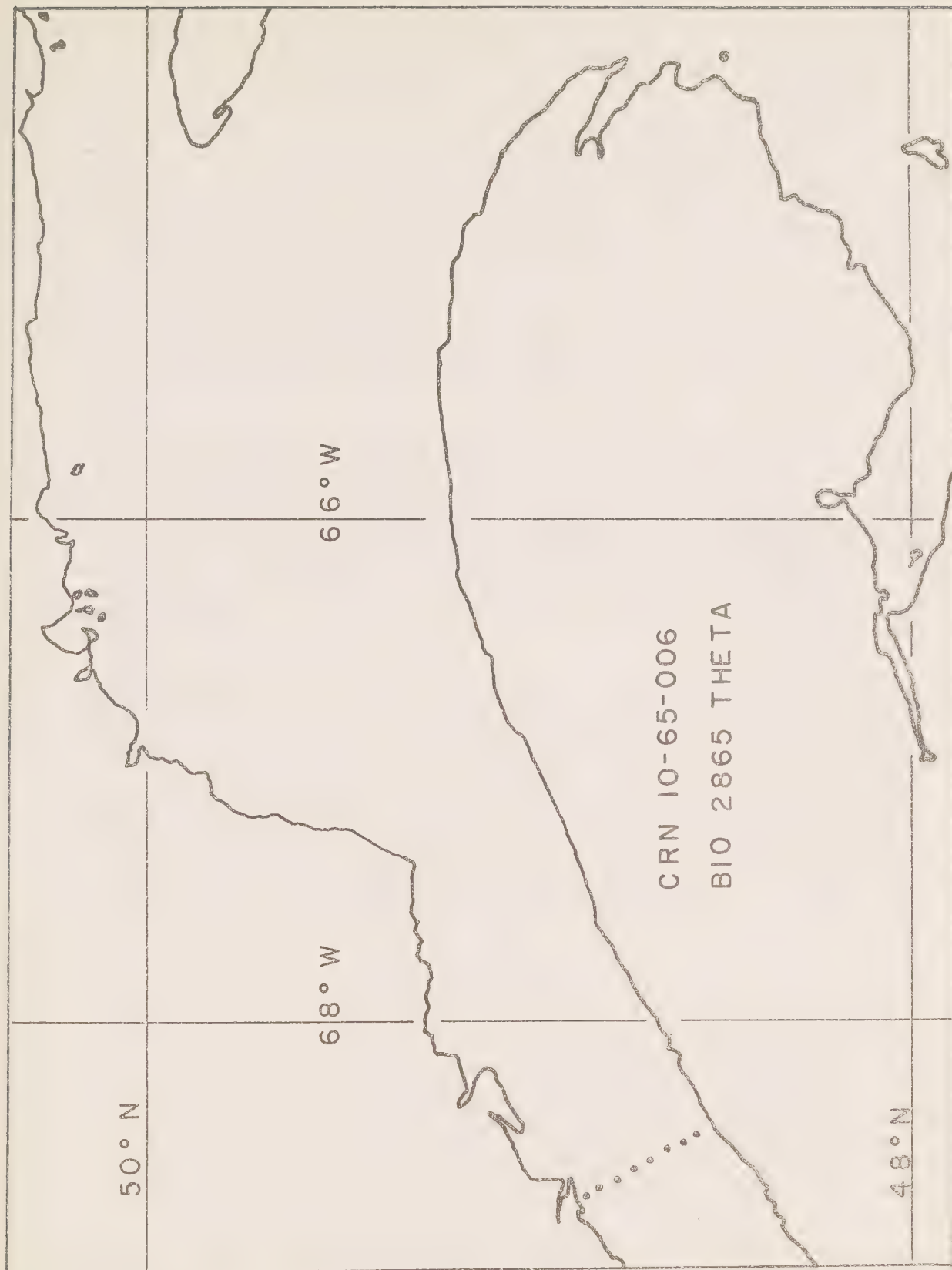
MARINE SCIENCES BRANCH
Bedford Institute of Oceanography, Dartmouth, N.S.

SECTION I

Description of data collection procedures



M.V. Theta, the vessel employed for the survey.



TRACK CHART

INTRODUCTION

The purpose of this cruise was to obtain sufficient oceanographic and current meter data in the cross-section of the St. Lawrence estuary between Cock Pt. and Pte. à Michel to cast light on the manner in which the density field responds to changes in the velocity field; and hence to show what relation, if any, the geostrophic current bears to the actual current. The data is also to be used to supplement knowledge of the circulation and oceanographic conditions in the Gulf of St. Lawrence.

Between September 19 and October 1, eleven sets of simultaneous observations were obtained in the cross-section. To accomplish this, the strings of bottles were moored and all fired at the same time by a clockwork messenger release at the top of each string. Since the strings were supported by a subsurface float, and since the ship was not on the station at the time of firing, no surface samples could be obtained for these moored stations. Between October 7 and October 10 oceanographic observations were made repeatedly on two stations near mid-channel to obtain time series information. Current meters were maintained in operation during both phases of oceanographic observation.

EXTRACT OF CRUISE LOG

Arrive Father Point, P. Q.	-	Sept. 16, 1965
Depart Father Point, P. Q.	-	Oct. 16, 1965

OBSERVATIONAL PROCEDURES

On the moored oceanographic stations a railway wheel was used as an anchor. bottles were attached to the wire in the usual manner, and the top of the wire was supported by a sub-surface float about 10 metres below the surface. The mechanical messenger release gear also contained a pressure gauge whose reading at the time of release was recorded to help assign the observation depths. A timer was attached to each bottom bottle and was so designed as to stop when the bottle reversed, to record the actual time of observation.

LABORATORY PROCEDURE

All thermometers used were subjected to ice-point calibration immediately after the cruise, and the results of this calibration were incorporated into the corrections made to the temperature readings. Salinities were determined by the conductivity method, using an NIO salinometer. Duplicate salinities drawn during the cruise were used to assess the reliability of the salinity determinations.

PERSONNEL

W. D. Forrester
D. Dobson
W. I. Farquharson
D. J. Lawrence
F. D. Ewing
M. E. MacLean
R. G. Tippet
B. D. Price
W. MacNeil
G. F. Connolly
B. Trudel

Scientist in Charge
Officer in Charge, Operations

SECTION 11

Description of the machine-generated data record

INTRODUCTION

This section applies to the machine processing phase of the data reduction and computation.

The oceanographic data previously recorded on CODC data summary forms, a sample of which is shown on the next page, are transferred to punch-cards for subsequent electronic data processing on an IBM 1620 computer, using CODC's OCEANS II program. In addition to computing routine derived quantities, the program carries out unit and format conversions, range checks, plausibility tests, internal editing, and if required, interpolation at standard oceanographic depths. When interpolations are carried out, additional derived values are computed.

After the data have been processed, the data record is prepared using an IBM 1401 computer configuration with the OCEAN REPORT III program, which provides for pre-edited high speed print-out on continuous direct-image masters. These masters subsequently yield the required volume of copies for distribution.

Provision has been made to enter an "**estimate of precision**" for each observed variable selected for interpolation at standard oceanographic depths. The precision depends on the instrument and/or technique used to determine the variable. A standard precision stated as a **standard deviation** (σ) can be determined for each instrument or technique under routine field conditions by making duplicate determinations of the variables for a homogeneous sample of sea water. These standard deviations are given for each cruise under "GENERAL INFORMATION" in section III of the data record.

The **measurement error estimate** of a specific observation in this data record, is stated as a multiple of the standard deviation derived as above, and entered in a column immediately to the right of the reported variable. In order to distinguish it from an additional decimal digit, the measurement error estimate is recorded alphabetically, (i.e., $1\sigma = A$, $2\sigma = B$, etc.; in this data record "A" is suppressed).

An option is provided with respect to the measurement of the salinity variable. If observed to three decimal digits, the last digit takes the place of the measurement error estimate.

In the past, a number of methods for both manual and machine interpolation have been developed. Studies and comparisons of the several methods have shown that no single method is universally acceptable. The manual methods are the most elaborate and flexible, but often require subjective decisions. In machine interpolation, all the present methods fail to yield acceptable results under some circumstances. Hence, it is considered necessary to qualify interpolated values by stating an "**interpolation error estimate**" derived from the particular interpolation formula used. There are two purposes in stating the error estimates; **first**, to give an indication of the quality of the interpolated data; **second**, to allow the oceanographer to redesign his observational procedures in order to reduce interpolation errors in future observations.

The interpolation scheme chosen for the OCEANS II program consists of a combination of two 3-point interpolations using the Lagrangian interpolation polynomial, as recommended by Rattray (1962). A parabola is fitted through three values of a given variable (T , S , O_2) considered as a function of depth. The two interpolation parabolas require a total of four points (observed depths). The middle points are common to both parabolas. The average of the two values obtained from the parabolas at standard depth is taken as the interpolated value, and a function of their difference as an estimate of the interpolation error.

This function combined with the "**measurement error estimate**" comprises the "**combined measurement and interpolation error estimate**". It is expressed as a multiple of the standard deviation of measurement (σ) under normal routine field conditions by:

CANADIAN OCEANOGRAPHIC DATA CENTRE

[illegible]

$$\frac{\sigma_i}{\sigma} = \left\{ \frac{(\Delta V_i)^2}{\sigma^2} + \sum_{n=j-2}^{j+1} (\gamma_n)^2 \left(\frac{\sigma_n}{\sigma} \right)^2 \right\}^{1/2}, \text{ where}$$

σ = Standard deviation of the combined error estimates at standard oceanographic depth,
 ΔV_i = the interpolation error estimate of variable "V" at standard oceanographic depth = $1/3 (\bar{V}_{i_1} - V_{i_2})$
 γ = Interpolation polynomial coefficient.

Z_j = Observed depth.

Z_i = Standard oceanographic depth, such that: $Z_{j-2} < Z_{j-1} < Z_i < Z_j < Z_{j+1}$

The integral part of the fraction $\frac{\sigma_i}{\sigma}$, if ≥ 2 , is reported in this Data Record following the interpolated variable. It represents the combined measurement and interpolation error estimate. In order to distinguish it from an additional decimal digit, it is recorded alphabetically (e.g.: 2 as "B", 3 as "C", etc.).

With respect to the interpolated value of the salinity variable if reported to three decimal digits, the interpolation error estimate is given only when $\frac{\sigma_i}{\sigma} \geq 2$ (the salinity is then recorded to two decimal places). If less than 2, the mean obtained from the two interpolation parabolas is reported to three decimal places.

EXPLANATION OF DATA RECORD HEADINGS

MASTER HEADINGS

(1) C-REF-NO	(6) YR	(11) DEPTH	(16) WAVES 1	(21) AIR T	(26) VIS
(2) CONS. NO	(7) MONTH	(12) MXSAMPD	(17) WAVES 2	(22) WET B	(27) STN
(3) LAT	(8) DAY	(13) NO. DPTH	(18) WND-DIR	(23) WW-CODE	
(4) LON	(9) HR	(14) W-COLOR	(19) WND-FCE	(24) CLD-TPE	
(5) MARSD SQ	(10) C/I	(15) W-TRNSP	(20) BARO	(25) CLD-AMT	(28) HW

(1) CRUISE REFERENCE NUMBER:

Assigned by the Institute. Commences with 001 at the beginning of each year (effective Jan. 1, 1963). Prior to that date the CRN was a number designated by CODC.

(2) CONSECUTIVE NUMBER:

Indicates the chronological order in which the stations were occupied.

(3) LATITUDE:

Indicate the position of the platform at the time of observation.

(4) LONGITUDE:

(5) MARSDEN SQUARE: Designates the geographic area code of the observation (see Marsden square chart).

(6) YEAR:

(7) MONTH:

(8) DAY:

(9) HOUR: The time (Greenwich Mean Time) at which the surface environmental data were recorded. It is reported to tenths of hours (Table 1).
If an "X" precedes the value for HOUR, (prior to Jan. 1, 1963) it indicates that the reported time is doubtful.

(10) COUNTRY/
INSTITUTE:

The International Geophysical Year (IGY) Country Code/Institute Code - see Table 11.

(11) DEPTH:

The sounding reported in metres. If corrected, this is stated in the "GENERAL INFORMATION" chapter of section III. Charted depths are preceded by the letter "C".

(12) MAXIMUM

SAMPLING DEPTH: A code to indicate the deepest sampling depth (used for high speed sorting).
00 m - 50 m = 00
51 m - 150 m = 01
151 m - 250 m = 02
etc.

- (13) NUMBER OF DEPTHS: The number of levels observed (this is entered to initiate a computer safety check, guarding against the loss of punch-cards).
- (14) WATER COLOUR: A code based on the percentage of yellow (see table 2 and Note under FIELD "15" below).
- (15) WATER TRANSPARENCY: The depth in metres at which a Secchi disc (white disc, 30 cm. in diameter) just disappears from view, or the optical density expressed in percentage;

NOTE: The "GENERAL INFORMATION" chapter in section III of the data record will state which method was used.

- (16) WAVES 1
($d_W d_W P_W H_W$ -code): The direction, period and height of the **wind-propagated** wave system. (See Tables 3, 4 and 5). Ref: World Meteorological Organization Codes 0885, 3155, 1555.
- (17) WAVES 2
($d_W d_W P_W H_W$ -code): The direction, period and height of the predominant **non-wind-propagated** wave system. (See Tables 3, 4 and 5). Ref: World Meteorological Organization Codes 0885, 3155, 1555.
- (18) WIND DIRECTION: The true direction to the nearest 10 degrees from which the wind is blowing (wind direction 990 means:—wind variable or direction unknown).
- (19) WIND FORCE
(WND-FCE): Beaufort notation (See Table 6).
- WIND SPEED
(WND-SPD): Anemometer reading reported in metres per second. Instrument height reported in "GENERAL INFORMATION" chapter of section III.
- (20) BAROMETER: The barometric pressure reported in millibars: the "GENERAL INFORMATION" chapter in Section III of the data record will state the type of instrument used.
- (21) AIR TEMPERATURE: In degrees Celsius.
- (22) WET BULB: In degrees Celsius.
- (23) ww CODE: Present Weather Code (See Table 7). Ref: WMO Code 4677
- (24) CLOUD TYPE: The type of predominating clouds (See Table 8). Ref: WMO Code 0500.
- (25) CLOUD AMOUNT: The sky coverage in eighths (See Table 9) Ref: WMO Code 2700
- (26) VISIBILITY: Visibility at the surface (See Table 10). Ref: WMO Code 4300.
- (27) STATION: A station reference number, assigned by the institute prior to, or during the survey.
- (28) HOURS AFTER HIGH WATER: Indicates the state of the tide for nearshore observations.

OBSERVED DATA HEADINGS

(1) GMT	(2) DEPTH	(3) TEMP	(4) SAL	(5) OXYGEN	(6) SGMT
(7) SOUND	(8) PO_4	(9) -P-	(10) NO_2	(11) NO_3	(12) SiO_2
					(13) pH.

NOTE: Headings (1) to (7) will always be present. Headings (8) to (13) appear only when one or more additional chemical entries were made.

(1) G.M.T.: The Greenwich Mean Time of (in-gin) thermometer inversion and sea water sample collection.

When a multiple cast was initiated prior to and continued after midnight, the times indicated are uninterrupted by the change of day and appear beyond 24.0 hours. This will be accompanied by a statement: "MULTIPLE CAST CONTINUED NEXT DAY", which is printed following the last level of observed values.

(2) DEPTH: The depth in metres at the reversal time of deepest cast.

(3) TEMPERATURE: Temperatures from deepsea reversing thermometers, read to 0.01°C . Surface temperature measurement procedures are described in the chapter "OBSERVATION PROCEDURES" of section I, and/or the "GENERAL INFORMATION" chapter of section III. An alphabetical character following the temperature value represents the measurement error estimate referred to in the INTRODUCTION to this section.

(4) SALINITY: Salinity as defined by: $S = 0.03 + 1.805 \text{ Cl}\%$, reported in:
a. 1/100 parts per 1000, or
b. 1/1000 parts per 1000.

In case a: an alphabetical character following the value is the measurement error estimate as referred to under (3).

In case b: no error estimate indication is provided for, but an additional decimal digit takes its place.

(5) OXYGEN: The concentration of dissolved oxygen expressed in millilitres per litre to 2 decimal places. An alphabetical character following the value is the measurement error estimate as referred to under (3).

(6) SIGMA-T: The specific gravity anomaly as defined by: $(\text{Specific gravity} - 1) \times 10^3$ (e.g., σ_t reported as 2456, reads 24.56, and corresponds to a specific gravity of 1.02456).

(7) SOUND: The sound velocity is reported in m/sec. to 1 decimal place (e.g., 1437.9 m/sec.). The computation is carried out using Wilson's formula (1960), expressed in terms of temperature, salinity and total pressure.

- (8) PO_4 Phosphate-Phosphorus reported to hundredths of microgram-atoms per litre.
- (9) -P- Total Phosphorus reported to hundredths of microgram-atoms per litre.
- (10) NO_2 Nitrite-Nitrogen reported to hundredths of microgram-atoms per litre — No dissolved nitrogen included —
- (11) NO_3 Nitrate-Nitrogen reported to tenths of microgram-atoms per litre.
- (12) SiO_2 Silicate-Silicon reported in whole microgram-atoms per litre.
- (13) pH The pH value.

NOTE: "TRC" (trace) is reported when a chemical entry has a value less than the standard deviation of measurement for that particular variable.

INTERPOLATED DATA HEADINGS

- | | | | | | |
|-------------|------------|----------|------------|----------|-----------|
| (1) DEPTH | (2) TEMP | (3) SAL | (4) OXYGEN | (5) SGMT | (6) SOUND |
| (7) DELTA-D | (8) POT-EN | (9) SVA. | | | |

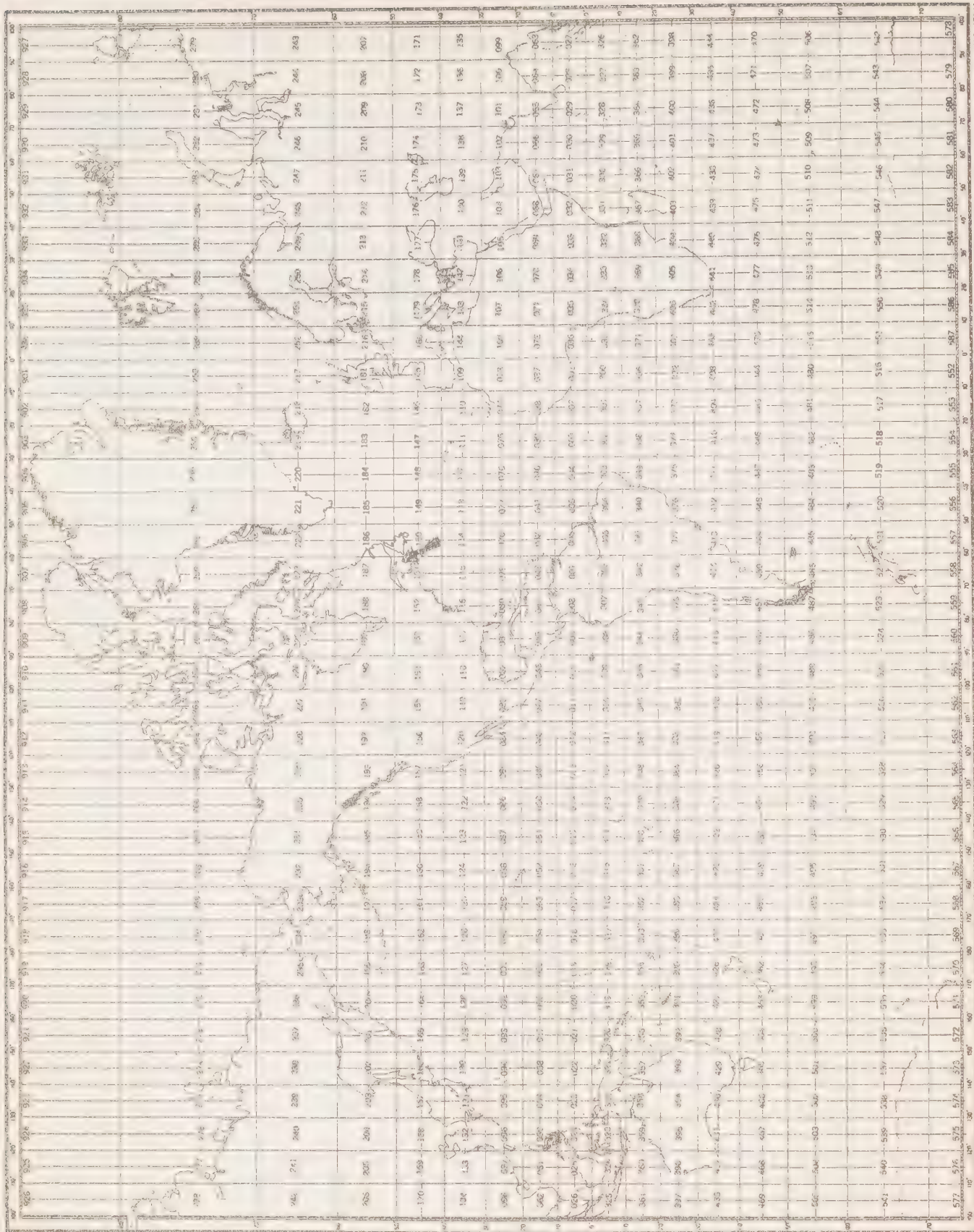
- (1) DEPTH: Standard Oceanographic Depth in whole metres, as well as additional depths: 125, 175, 225, 3500, 4500, 5500, 6500, 7500, 8500, 9500.
- (2) TEMPERATURE: Interpolated value at standard depth, followed by the combined measurement and interpolation error estimate (see "INTRODUCTION" to section II of the data record).
- (3) SALINITY:
- A. The reported salinity values are measured to three decimal places.
 - (i) the interpolation error estimate is less than twice the standard deviation of measurement
 - the interpolated value is reported to three decimal places (e.g., 30.139).
 - (ii) the interpolation error estimate is equal to or greater than twice the standard deviation of measurement.
 - the interpolated value is reported to two decimal places, and followed by the interpolation error estimate (e.g., 29.23 C).
 - B. The reported salinity values are measured to two decimal places and followed by the measurement error estimate.
 - the interpolated value is reported to two decimal places, and followed by the combined measurement and interpolation error estimate (e.g., 30.59 B).
- (4) OXYGEN: Interpolated value at standard depth, followed by the combined measurement and interpolation error estimate (see "Introduction" to section II of the data record).

- (5) SIGMA-T: Computed from temperature and salinity values at standard oceanographic depth.
- (6) SOUND VELOCITY: Computed from temperature, salinity and total pressure values at standard oceanographic depth, using Wilson's formula (1960).
- (7) DELTA-D: The geo-potential anomaly as defined by:
- $$\Delta D = \int_0^p \delta dp$$
- ΔD is expressed in dynamic metres (10^5 ergs/gram) and recorded to three decimal places (e.g., 2.345 dyn. metres).
- (8) POTENTIAL ENERGY ANOMALY: The Potential energy anomaly χ as defined by:
- $$\chi = 1/g \int_0^p p \delta dp = \int_0^z \rho p \delta dz$$
- χ is expressed in units of 10^8 ergs/cm² and recorded to two decimal places (e.g., 116.44).
- (9) SPECIFIC VOLUME ANOMALY: The specific volume anomaly as defined by:
- $$\delta = \sigma - \sigma_{35.0.P}$$
- δ is expressed in ml/gr, and conventionally reported as $10^5 \delta$, to one decimal place (i.e., δ reported as 1234, reads 123.4, and corresponds to a specific volume anomaly of 0.001234 ml/gr.).

SPECIAL CHARACTERS

‡ (Record mark): is used to indicate inconsistencies which are printed in an area below the "Observed Data". A corresponding record mark at the extreme left hand side indicates the level at which the inconsistency occurs

* (Asterisk): this character may occur in the **interpolated** portion of the data record. It is printed at the extreme left hand side of the page, when three or more standard depth levels fall within any one **observed depth interval**. The **third**, and all consequent levels are preceded by the asterisk to indicate that more than **two** machine interpolations were carried out, utilizing the same set of interpolation parabolas. The asterisk will also appear when the last standard depth is an extrapolation and there are at least two interpolations between the last two observed depths.



MARSDEN SQUARE CHART

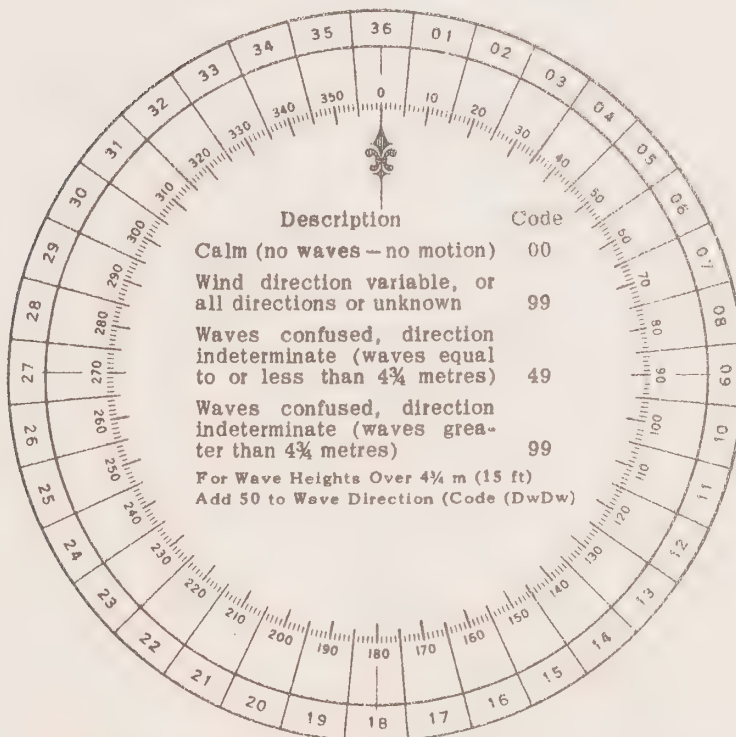
Table 1
CONVERSION
MINUTES TO $\frac{1}{4}$ HRS.

Minutes	Tenths Hrs.
00-03	0
04-08	1
09-15	2
16-20	3
21-27	4
28-32	5
33-39	6
40-44	7
45-51	8
52-56	9
57-59	0 (next HR.)

Table 2
WATER COLOR CODE
Based on Percentage Yellow

Code:	Description
00	Deep Blue
10	Blue
20	Greenish Blue
30	Bluish Green
40	Green
50	Light Green
60	Yellowish Green
70	Yellow Green
80	Green Yellow
90	Greenish Yellow
99	Yellow

Table 3. DIRECTION CODE (dd)



NOTE:

Always use the true direction from which the wind is blowing, or the direction from which Waves I (sea), or Waves II (swell) come.

Table 4. PERIOD OF THE WAVES (P_w)
(Measure to the Nearest Second)

Code:	Period in Seconds:	Code:	Period in Seconds:
2	5 sec. or less	8	16 or 17 sec.
3	6 or 7 sec.	9	18 or 19 sec.
4	8 or 9 sec.	0	20 or 21 sec.
5	10 or 11 sec.	1	Over 21 sec.
6	12 or 13 sec.	X	Calm, or period not determined
7	14 or 15 sec.		

Table 5. HEIGHT OF THE WAVES (H_w)

- The average value of the wave height (vertical distance between trough and crest) is reported, as obtained from the larger well formed waves of the wave system being observed.
- Each code figure provides for reporting a range of heights. For example: 1 = $\frac{1}{4}$ m (1 ft) to $\frac{3}{4}$ m (2½ ft); 5 = $2\frac{1}{4}$ m (7 ft) to $2\frac{3}{4}$ m (9 ft); 9 = $4\frac{1}{4}$ m (13½ ft) to $4\frac{3}{4}$ m (15 ft), etc.
- If a wave height comes exactly midway between the heights corresponding to two code figures, the lower code figure is reported; e.g. a height of $2\frac{3}{4}$ m is reported by code figure 5.

Code			Code
0	Less than ¼ m (1 ft)	Add 50 to Dw Dw	0 5 m (16 ft)
1	½ m (1½ ft)		1 5½ m (17½ ft)
2	1 m (3 ft)		2 6 m (19 ft)
3	1½ m (5 ft)		3 6½ m (21 ft)
4	2 m (6½ ft)		4 7 m (22½ ft)
5	2½ m (8 ft)		5 7½ m (24 ft)
6	3 m (9½ ft)		6 8 m (25½ ft)
7	3½ m (11 ft)		7 8½ m (27 ft)
8	4 m (13 ft)		8 9 m (29 ft)
9	4½ m (14 ft)		9 9½ m (30½ ft) or more
x	Height not determined		

Add
50
to
Dw Dw

Table 6. WIND FORCE CODE

The Beaufort force of the wind is estimated from the appearance of the sea surface, according to the table below. This table is only intended as a guide to show roughly what may be expected on the open sea, remote from land. Factors which must be taken into account are the "lag" effect between the wind increasing and the sea getting up; and the influence of "fetch", depth, swell, heavy rain and tide effect on the appearance of the sea. Estimation of the wind force by this method becomes unreliable in shallow water or when close inshore, owing to the tidal effect and the shelter provided by the land.

Code	Appearance of sea if fetch and duration of the blow have been sufficient to develop the sea fully	Description
00	Sea like a mirror	Calm
01	Ripples with the appearance of scales are formed, but without foam crests.	Light Air
02	Small wavelets; crests have a glassy appearance and do not break.	Light Breeze
03	Large wavelets; crests begin to break; foam of glassy appearance; perhaps scattered white horses.	Gentle Breeze
04	Small waves, becoming longer; fairly frequent white horses.	Moderate breeze
05	Moderate waves; many white horses are formed (chance of some spray)	Fresh Breeze
06	Large waves; white foam crests everywhere (probably some spray)	Strong Breeze
07	Sea heaps up and white foam from breaking waves begins to be blown in streaks along the direction of the wind.	Near Gale
08	Moderately high waves; edges of crests begin to break into the spindrift; foam is blown in well-marked streaks along the direction of the wind.	
09	High waves; dense streaks of foam along wind; crests begin to topple, tumble and roll over; spray may affect visibility.	Strong Gale
10	Very high waves with long overhanging crests; foam in great patches blown in dense white streaks along wind; sea surface takes a white appearance; tumbling becomes heavy and shock-like; visibility affected.	Storm
11	Exceptionally high waves (medium sized ships may be lost to view behind waves); sea covered with long white patches of foam lying along the wind; everywhere edges of crests are blown into froth; visibility affected.	Violent Storm
12	Air is filled with foam and spray; sea completely white with driving spray; visibility seriously affected.	Hurricane

Table 7. PRESENT WEATHER

W.W. CODE

NO PRECIPITATION ON STATION AT TIME OF OBSERVATION

Code figure ww			
No meteors except photometeors	00	Cloud development not observed or not observable	characteristic change of the state of sky during the past hour
	01	Clouds generally dissolving or becoming less developed	
	02	State of sky on the whole unchanged	
Haze, dust, sand or smoke	03	Clouds generally forming or developing	
	04	Visibility reduced by smoke, e.g. veidt or forest fires, industrial smoke or volcanic ashes	
	05	Haze	
	06	Widespread dust in suspension in the air, not raised by wind at or near the station at the time of observation	
	07	Dust or sand raised by wind at or near the station at the time of observation, but no well developed dust whirl(s) or sand whirl(s), and no duststorm or sandstorm seen	
	08	Well developed dust whirl(s) or sand whirl(s) seen at or near the station during the preceding hour or at the time of observation, but no dustorm or sandstorm	
	09	Duststorm or sandstorm within sight at the time of observation, or at the station during the preceding hour	
	10	Mist	
	11	Patches of	shallow fog or ice fog at the station, whether on land or sea, not deeper than about 2 metres on land or 10 metres at sea
	12	More of less continuous	
	13	Lightning visible, no thunder heard	
	14	Precipitation within sight, not reaching the ground or the surface of the sea	
	15	Precipitation within sight, reaching the ground or the surface of the sea, but distant (i.e. estimated to be more than 5 km) from the station	
	16	Precipitation within sight, reaching the ground or the surface of the sea, near to, but not at the station	
	17	Thunderstorm, but no precepitation at the time of observation	
	18	Squalls	at or within sight of the station during the preceding hour or at the time of observation
	19	Funnel clouds	
ww = 20 - 29			
	20	Precipitation, fog, ice fog or thunderstorm at the station during the preceding hour but not at the time of observation	
	21	Drizzle (not freezing) or snow grains	not falling as shower(s)
	22	Rain (not freezing)	
	23	Snow	
	24	Rain and snow or ice pellets, type (a)	
	25	Freezing drizzle or freezing rain	
	26	Shower(s) of rain	
	27	Shower(s) of snow, or of rain and snow	
	28	Shower(s) of hail, or of rain and hail	
	29	Fog or ice fog	
ww = 30 - 39			
	30	Thunderstorm (with or without precipitation)	
	31	Duststorm, sandstorm, drifting or blowing snow	
	32	Slight or moderate dust-storm or sand-storm	-has decreased during the preceding hour
	33		
	34	Severe dust-storm or sand-storm	-no appreciable change during the preceding hour
	35		
	36	Slight or moderate blowing snow	-has begun or has increased during the preceding hour
	37	Heavy drifting snow	
	38	Slight or moderate blowing snow	generally low (below eye level)
	39	Heavy blowing snow	
ww = 40 - 49			
	40	Fog or ice fog at the time of observation	
	41	Fog or ice fog at a distance at the time of observation, but not at the station during the preceding hour, the fog or ice fog extending to a level above that of the observer	
	42	Fog or ice fog in patches	
	43	Fog or ice fog, sky visible	has become thinner during the preceding hour
	44	Fog or ice fog, sky invisible	
	45	Fog or ice fog, sky visible	no appreciable change during the preceding hour
	46	Fog or ice fog, sky invisible	
	47	Fog or ice fog, sky visible	has begun or has become thicker during the preceding hour
	48	Fog or ice fog, sky invisible	
	49	Fog, depositing rime, sky visible	
		Fog, depositing rime, sky invisible	

NO PRECIPITATION ON STATION AT TIME OF OBSERVATION

PRECIPITATION ON STATION AT TIME OF OBSERVATION

ww = 50 - 59 Drizzle

50	Drizzle, not freezing, intermittent	} slight at time of observation
51	Drizzle, not freezing, continuous	
52	Drizzle, not freezing, intermittent	} moderate at time of observation
53	Drizzle, not freezing, continuous	
54	Drizzle, not freezing, intermittent	} heavy (dense) at time of observation
55	Drizzle, not freezing, continuous	
56	Drizzle, freezing, slight	
57	Drizzle, freezing, moderate or heavy (dense)	
58	Drizzle and rain, slight	
59	Drizzle and rain, moderate or heavy	

ww = 60 - 69 Rain

60	Rain, not freezing, intermittent	} slight at time of observation
61	Rain, not freezing, continuous	
62	Rain, not freezing, intermittent	} moderate at time of observation
63	Rain, not freezing, continuous	
64	Rain, not freezing, intermittent	} heavy at time of observation
65	Rain, not freezing, continuous	
66	Rain, freezing, slight	
67	Rain, freezing, moderate or heavy	
68	Rain or drizzle and snow, slight	
69	Rain or drizzle and snow, moderate or heavy	

70 - 79 Solid precipitation not in showers

ww		
70	Intermittent fall of snow flakes	} slight at time of observation
71	Continuous fall of snow flakes	
72	Intermittent fall of snow flakes	} moderate at time of observation
73	Continuous fall of snow flakes	
74	Intermittent fall of snow flakes	} heavy at time of observation
75	Continuous fall of snow flakes	
76	Ice prisms (with or without fog)	
77	Snow grains (with or without fog)	
78	Isolated starlike snow crystals (with or without fog)	
79	Ice pellets, type (a)	

ww = 80 - 99 Showery precipitation, or precipitation with current or recent thunderstorm

80	Rain shower(s), slight	
81	Rain shower(s), moderate or heavy	
82	Rain shower(s), violent	
83	Shower(s) of rain and snow mixed, slight	
84	Shower(s) of rain and snow mixed, moderate or heavy	
85	Snow shower(s), slight	
86	Snow shower(s), moderate or heavy	
87	Shower(s) of snow pellets or ice pellets, type (b), with or without rain or rain and snow mixed	} - slight
88		
89	Shower(s) of hail, with or without rain or rain and snow mixed, not associated with thunder	} - moderate or heavy
90		
91	Slight rain at time of observation	
92	Moderate or heavy rain at time of observation	
93	Slight snow, or rain and snow mixed or hail at time of observation	} thunderstorm during the preceding hour but not at time of observation
94	Moderate or heavy snow, or rain and snow mixed or hail at time of observation	
95	Thunderstorm, slight or moderate, without hail, but with rain and/or snow at time of observation	
96	Thunderstorm, slight or moderate, with hail at time of observation	
97	Thunderstorm, heavy, without hail, but with rain and/or snow at time of observation	} thunderstorm at time of observation
98	Thunderstorm, combined with duststorm or sandstorm at time of observation	
99	Thunderstorm, heavy, with hail at time of observation	

PRECIPITATION ON STATION AT TIME OF OBSERVATION

Table 8. CLOUD TYPE CODE

Code	Cloud Type	Code	Cloud Type
0	Cirrus Ci	5	Nimbostratus Ns
1	Cirrocumulus Cc	6	Stratocumulus Sc
2	Cirrostratus Cs	7	Stratus St
3	Alto cumulus Ac	8	Cumulus Cu
4	Altostratus As	9	Cumulonimbus Cb
x	Cloud not visible owing to darkness, fog, duststorm, sandstorm, or other analogous phenomena		

Table 9. CLOUD AMOUNT CODE

Code	Cloud Cover	Code	Cloud Cover
0	0	6	6 oktas
1	1 okta or less, but not zero	7	7 oktas or more, but not 8 oktas
2	2 oktas	8	8 oktas
3	3 oktas	9	Sky obscured, or cloud amount cannot be estimated
4	4 oktas		
5	5 oktas		

Note: 1 okta = $\frac{1}{8}$ of the sky covered

Table 10. VISIBILITY

Code	Estimate of hor. Visibility
0	Less than 50 metres (less than 55 yards)
1	50-200 metres (approx. 55-220 yards)
2	200-500 metres (approx. 220-550 yards)
3	500-1,000 metres (approx. 550 yards- $\frac{1}{2}$ n.m.)
4	1-2 km (approx. $\frac{1}{2}$ -1 n.m.)
5	2-4 km (approx. 1-2 n.m.)
6	4-10 km (approx. 2-6 n.m.)
7	10-20 km (approx. 6-12 n.m.)
8	20-50 km (approx. 12-30 n.m.)
9	50 km or more (30 n.m. or more)

Note: n.m. = nautical mile

Table 11

Institute Code

01. Atlantic Oceanographic Group.
02. Pacific Oceanographic Group.
03. Biological Station, St. Andrews, N.B.
04. Arctic Biological Station, Ste. Anne de Bellevue, P.Q.
05. Biological Station, St. John's, Nfld.
06. Station de Biologie Marine, Grande Riviere, P.Q.
07. Marine Sciences Branch, Central Region.
08. Naval Research Establishment, Dartmouth, N.S.
09. Pacific Naval Laboratory, Esquimalt, B.C.
10. Bedford Institute of Oceanography, (MSB, Atlantic Region).
11. Polar Continental Shelf Project.
12. Great Lakes Institute.
13. Institute of Oceanography, University of British Columbia.
14. Institute of Oceanography, Dalhousie University.
15. Marine Sciences Branch, Pacific Region.
16. Department of Transport.
17. Marine Sciences Centre, McGill University.
18. RCN East Coast.
19. RCN West Coast.
20. Ontario Water Resources Commission.
21. Dept. National Health and Welfare.
22. Inland Waters Branch, Dept. of Energy, Mines and Resources.

SECTION III

Serial oceanographic data

GENERAL INFORMATION

<u>Institute:</u>	Bedford Institute of Oceanography
<u>Observation platform:</u>	MV "Theta"
<u>Vessel's cruising speed:</u>	10 knots
<u>Total number of stations occupied:</u>	130
<u>Anemometer height above sea level:</u>	11 metres
<u>Barometer readings:</u>	Aneroid Barometer (corrected)
<u>Air temperature:</u>	Fixed Thermometer
<u>Surface sea water temperature:</u>	Bucket sample (deck thermometer)

The following Standard Deviations were used to express both measurement and interpolation error estimates:

Temperature	0.01
Salinity	0.008

C-REF-NO 006	YR 1965	DEPTH	61	WAVES 1 00X0	AIR T 15.5	VIS
CONS. NO 001	MONTH 9	MXSAMPD	00	WAVES 2 XX	WET B	STN
LAT 48-529N	DAY 19	NO.DPTH	6	WND-DIR CALM	WW-CODE 00	
LON 68-394W	HR 18.0	W-COLOR		WND-FCE 00	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP		BARO 1023.7	CLD-AMT 0	HW 05

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
180	0000	066 B	29718		2334	14705
180	0010	0404	30074		2390	14606
180	0020	0300	30920		2466	14574
180	0030		31813			
180	0040	0063	32309		2593	14491
180	0050	0036	32427		2604	14482

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0660 B	29718		2334	14705	0000	00000	4549
0010	0404	30074		2390	14606	0043	00002	4019
0020	0300	30920		2466	14574	0080	00008	3293
0030	0169 I	31813		2547	14530	0109	00015	2522
0050	0036	32427		2604	14482	0154	00033	1979

C-REF-NO 006	YR 1965	DEPTH 198	WAVES 1 00X0	AIR T 15.5	VIS
CONS. NO 002	MONTH 9	MXSAMPD 00	WAVES 2 XX	WET B	STN
LAT 48-504N	DAY 19	NO.DPTH 2	WND-DIR CALM	WW-CODE 00	
LON 68-375W	HR 18.0	W-COLOR	WND-FCE 00	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1023.7	CLD-AMT 0	HW 05

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
180	0015	0282	30745		2453	14563
180	0025	0227	31404		2510	14549

C-REF-NO 006	YR 1965	DEPTH 338	WAVES 1 00X0	AIR T 15.5	VIS
CONS. NO 003	MONTH 9	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-449N	DAY 19	NO.DPTH 11	WND-DIR CALM	WW-CODE 00	
LON 68-335W	HR 18.0	W-COLOR	WND-FCE 00	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1023.7	CLD-AMT 0	HW 05

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
180	0016	0337	30241		2409	14580
180	0023	0275	30626		2444	14560
180	0033	0237	31029		2479	14550
180	0043	0164	31885		2553	14531
180	0052	0054	32320		2594	14489
180	0078	0009	32567		2616	14476
180	0100	0040	32935		2644	14499
180	0151	0244	33719		2693	14609
180	0199	0331	34021		2710	14659
180	0253	0408	34351		2728	14705
180	0335	0433	34464		2735	14730

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0329 I	3024 G		2409	14576	0038	00002	3833
0020	0302 C	3045 B		2428	14569	0076	00008	3649
0030	0247 C	3089 C		2468	14552	0111	00017	3274
0050	0078 C	32245		2587	14499	0165	00038	2140
0075	0002 E	3257 D		2617	14472	0216	00069	1852
0100	0040	32935		2644	14499	0259	00108	1593
0125	0136 I	3336 B		2672	14552	0296	00150	1331
0150	0240	33706		2693	14607	0327	00194	1142
0175	0295 D	3390 B		2703	14638	0355	00239	1047
0200	0333	34028		2710	14660	0380	00289	0984
0225	0372	34193		2719	14683	0404	00340	0901
*0250	0405	34335		2727	14703	0426	00393	0829
0300	0431 B	3443 B		2733	14723	0467	00508	0788

C-REF-NO 006	YR 1965	DEPTH 333	WAVES 1 00X0	AIR T 15.5	VIS
CONS. NO 004	MONTH 9	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-413N	DAY 19	NO.DPTH 11	WND-DIR CALM	WW-CODE 00	
LON 68-308W	HR 18.1	W-COLOR	WND-FCE 00	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1023.7	CLD-AMT 0	HW 05

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
181	0017	0375	30071		2392	14594
181	0024	0339	30206		2406	14582
181	0035	0302	30434		2427	14571
181	0046	0223	31579		2524	14554
181	0055	0121	32015		2566	14516
181	0079	0020	32684		2625	14483
181	0102	0150	33364		2672	14555
181	0154	0284	33848		2700	14629
181	0202	0354	34124		2716	14671
181	0254	0411	34344		2728	14706
181	0330	0433	34448		2733	14729

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0374 E	3005 B		2390	14592	0040	00002	4012
0020	0360	30124		2397	14589	0080	00008	3944
0030	0320 C	3027 E		2413	14576	0119	00018	3799
0050	0178 C	3181 B		2546	14537	0183	00043	2533
0075	0020	3260 B		2618	14481	0238	00077	1842
0100	0135 D	33310		2669	14547	0278	00112	1364
0125	0227 G	3368 G		2692	14597	0310	00149	1151
0150	0279 B	3384 B		2700	14626	0338	00188	1074
0175	0319 B	33983		2708	14649	0364	00232	1003
0200	0352	34115		2715	14669	0389	00279	0937
0225	0383	34234		2722	14688	0411	00329	0880
0250	0408	34331		2727	14704	0433	00381	0836
0300	0430	34430		2732	14723	0474	00497	0790

C-REF-NO 006	YR 1965	DEPTH 218	WAVES 1 00X0	AIR T 15.5	VIS
CONS. NO 005	MONTH 9	MXSAMPD 02	WAVES 2 XX	WET B	STN
LAT 48-387N	DAY 19	NO.DPTH 9	WND-DIR CALM	WW-CODE 00	
LON 68-291W	HR 18.1	W-COLOR	WND-FCE 00	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1023.7	CLD-AMT 0	HW 05

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
181	0011	0385	29761		2367	14594
181	0021	0343	29973		2387	14580
181	0031	0285	30376		2424	14562
181	0041	0251	31122		2486	14559
181	0051	0216	31698		2534	14553
181	0076	0056	32996		2648	14503
181	0101	0164	33425		2676	14562
181	0151	0295	33898		2703	14634
181	0214	0360	34155		2718	14675

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0382 C	29753		2366	14592	0043	00002	4242
0020	0349	29943		2384	14582	0084	00009	4071
0030	0291	30324		2419	14564	0124	00019	3738
0050	0220	31645		2530	14554	0188	00044	2684
0075	0061 C	32954		2645	14505	0242	00077	1590
0100	0157 B	33417		2676	14559	0278	00109	1298
0125	0238 B	3370 B		2692	14602	0309	00144	1146
0150	0293	33892		2703	14633	0337	00183	1047
0175	0340 D	3409 C		2714	14660	0362	00225	0944
0200	0359 B	3416 B		2718	14673	0385	00270	0914

C-REF-NO 006	YR 1965	DEPTH	61	WAVES 1 00X0	AIR T 15.5	VIS
CONS. NO 006	MONTH 9	MXSAMPD	01	WAVES 2 XX	WET B	STN
LAT 48-369N	DAY 19	NO.DPTH	4	WND-DIR CALM	WW-CODE 00	
LON 68-273W	HR 18.0	W-COLOR		WND-FCE 00	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP		BARO 1023.7	CLD-AMT 0	HW 05

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
180	0012	0436	29445		2337	14611
180	0027	0332	29910		2383	14575
180	0042	0246	31148		2488	14557
180	0058	0095	32351		2594	14509

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0420 I	2939 C		2334	14603	0046	00002	4554
0020	0387 F	2961 B		2355	14594	0090	00009	4353
0030	0316 B	3013 C		2402	14572	0132	00020	3903
0050	0167 E	3163 H		2532	14530	0198	00045	2662

C-REF-NO 006	YR 1965	DEPTH	22	WAVES 1 00X0	AIR T 15.5	VIS
CONS. NO 007	MONTH 9	MXSAMPD	00	WAVES 2 XX	WET B	STN
LAT 48-349N	DAY 19	NO.DPTH	2	WND-DIR CALM	WW-CODE 00	
LON 68-258W	HR 18.1	W-COLOR		WND-FCE 00	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP		BARO 1023.7	CLD-AMT 0	HW 05

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
181	0016	0466	29314		2324	14623
181	0019	0423	29464		2340	14607

C-REF-NO 006	YR 1965	DEPTH	59	WAVES 1	XX	AIR T 07.7	VIS
CONS. NO 008	MONTH 9	MXSAMPD	00	WAVES 2	XX	WET B	STN
LAT 48-529N	DAY 21	NO.DPTH	6	WND-DIR	050	WW-CODE 50	
LON 68-394W	HR 19.2	W-COLOR		WND-FCE	03	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP		BARO 1014.9		CLD-AMT 8	HW 03

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
192	0000	056 B	29758		2349	14665
192	0010	0493	30171		2389	14645
192	0019	0283	30698		2449	14563
192	0030	0236	31270		2499	14552
192	0040	0113	32089		2572	14511
192	0050	0067	32311		2593	14494

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0560 B	29758		2349	14665	0000	00000	4408
0010	0493	30171		2389	14645	0042	00002	4029
0020	0276 E	30745		2454	14561	0080	00008	3407
0030	0236	31270		2499	14552	0112	00016	2980
0050	0067	32311		2593	14494	0163	00036	2084

C-REF-NO 006	YR 1965	DEPTH 197	WAVES 1 XX	AIR T 07.7	VIS
CONS. NO 009	MONTH 9	MXSAMPD 02	WAVES 2 XX	WET B	STN
LAT 48-504N	DAY 21	NO.DPTH 9	WND-DIR 050	WW-CODE 50	
LON 68-375W	HR 18.5	W-COLOR	WND-FCE 03	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1014.9	CLD-AMT 8	HW 03

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
185	0014	0324	30157		2403	14573
185	0022	0273	30506		2435	14557
185	0032	0262	31355		2503	14565
185	0042	0140	32082		2570	14523
185	0052	0056	32346		2596	14490
185	0077	0012	32637		2622	14478
185	0102	0078	33075		2653	14519
185	0152	0270	33808		2698	14622
185	0194	0377	34210		2720	14680

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0311 I	30065		2397	14566	0039	00002	3949
0020	0286 C	30393		2425	14561	0078	00008	3681
0030	0266 E	3117 B		2488	14564	0112	00016	3077
0050	0070	3232 B		2593	14496	0164	00037	2082
0075	0009 B	32621		2621	14476	0213	00068	1818
0100	0070	33038		2651	14514	0255	00105	1531
0125	0166 F	33441		2677	14567	0290	00146	1286
0150	0262	33783		2697	14618	0320	00188	1103
0175	0320 H	34044		2713	14650	0346	00231	0959

C-REF-NO 006	YR 1965	DEPTH	321	WAVES 1	XX	AIR T	07.7	VIS	
CONS. NO 010	MONTH 9	MXSAMPD	03	WAVES 2	XX	WET B		STN	
LAT 48-484N	DAY 21	NO.DPTH	12	WND-DIR	050	WW-CODE	50		
LON 68-361W	HR 18.1	W-COLOR		WND-FCE	03	CLD-TPE			
MARSD SQ 151	C/I 1810	W-TRNSP		BARO	1014.9	CLD-AMT	8	HW	02

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
181	0000	050 B	29598		2343	14638
181	0010	0438	29859		2369	14617
181	0020	0352	30146		2400	14586
181	0030	0277	31053		2478	14567
181	0040	0192	31873		2550	14543
181	0050	0079	32259		2588	14499
181	0075	0015	32676		2625	14480
181	0100	0051	32993		2648	14505
181	0150	0234	33675		2691	14604
181	0200	0376	34208		2720	14681
181	0250	0426	34433		2733	14713
181	0317	0435	34470		2735	14728

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0500 B	29598		2343	14638	0000	00000	4467
0010	0438	29859		2369	14617	0044	00002	4212
0020	0352	30146		2400	14586	0084	00008	3920
0030	0277	31053		2478	14567	0120	00017	3175
0050	0079	32259		2588	14499	0173	00038	2130
0075	0015	32676		2625	14480	0223	00069	1778
0100	0051	32993		2648	14505	0265	00106	1555
0125	0136 H	33339		2671	14552	0301	00148	1343
0150	0234	33675		2691	14604	0333	00192	1161
0175	0313 B	33970		2707	14647	0360	00238	1008
0200	0376	34208		2720	14681	0384	00284	0891
0225	0409 B	34350		2728	14701	0406	00331	0820
0250	0426	34433		2733	14713	0426	00380	0779
0300	0446 C	34507		2737	14731	0464	00488	0750

C-REF-NO 006 YR 1965 DEPTH 339 WAVES 1 XX AIR T 07.7 VIS
 CONS. NO 011 MONTH 9 MXSAMPD 03 WAVES 2 XX WET B STN
 LAT 48-449N DAY 21 NO.DPTH 11 WND-DIR 050 WW-CODE 50
 LON 68-335W HR 18.5 W-COLOR WND-FCE 03 CLD-TPE
 MARSD SQ 151 C/I 1810 W-TRNSP BARO 1014.9 CLD-AMT 8 HW 03

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
185	0016	0386	30141		2397	14600
185	0020	0331	30707		2446	14585
185	0032	0209	31686		2534	14547
185	0042	0145	32034		2566	14524
185	0052	0063	32272		2590	14492
185	0077	0013	32649		2623	14479
185	0102	0060	33047		2652	14510
185	0152	0278	33833		2700	14626
185	0201	0383	34227		2721	14684
185	0252	0427	34439		2733	14714
185	0335	0434	34470		2735	14731

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0392 I	3011 I		2393	14601	0040	00002	3983
0020	0331	30707		2446	14585	0077	00008	3479
0030	0225	3158 B		2524	14552	0109	00015	2736
0050	0079 B	32231		2586	14499	0158	00035	2151
0075	0011 B	32624		2621	14477	0208	00066	1816
0100	0054	33015		2650	14506	0250	00104	1539
0125	0157 I	3343 B		2677	14563	0286	00145	1286
0150	0269 B	33805		2698	14621	0315	00187	1092
0175	0338 B	34053		2712	14658	0341	00230	0969
0200	0382	34222		2721	14683	0365	00275	0886
0225	0410 B	34348		2728	14701	0386	00321	0822
0250	0426	34434		2733	14713	0407	00371	0778
0300	0449 C	34517		2737	14732	0445	00479	0746

C-REF-NO 006	YR 1965	DEPTH 333	WAVES 1 XX	AIR T 07.7	VIS
CONS. NO 012	MONTH 9	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-413N	DAY 21	NO.DPTH 11	WND-DIR 050	WW-CODE 50	
LON 68-308W	HR 18.5	W-COLOR	WND-FCE 03	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1014.9	CLD-AMT 8	HW 77

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
185	0017	0426	29861		2371	14613
185	0023	0367	30303		2411	14595
185	0033	0272	31178		2489	14567
185	0043	0181	31915		2554	14539
185	0053	0040	32333		2596	14483
185	0078	0058				
185	0103	0187	33536		2683	14574
185	0153	0280	33829		2699	14627
185	0202	0351	34126		2716	14669
185	0253	0395	34291		2725	14699
185	0329	0432	34463		2735	14729

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0435 G	2974 D		2360	14614	0043	00002	4303
0020	0398 B	30064		2389	14605	0084	00009	4022
0030	0300	3091 B		2465	14576	0121	00018	3298
0050	0080 E	32227		2585	14499	0176	00039	2154
0075	0039 G	3301 C		2650	14495	0223	00068	1536
0100	0170 C	33497		2681	14565	0258	00099	1246
0125	0243 H	3372 E		2694	14604	0288	00133	1133
0150	0278 B	33824		2699	14625	0316	00173	1085
0175	0315	33970		2707	14647	0342	00217	1010
0200	0349	34115		2716	14668	0366	00264	0934
0225	0374	34212		2721	14684	0389	00314	0888
0250	0393	34284		2725	14697	0411	00367	0856
0300	0425	34428		2733	14721	0453	00484	0786

C-REF-NO 006	YR 1965	DEPTH	220	WAVES 1	XX	AIR T	07.7	VIS	
CONS. NO 013	MONTH 9	MXSAMPD	00	WAVES 2	XX	WET B		STN	
LAT 48-388N	DAY 21	NO.DPTH	1	WND-DIR	050	WW-CODE	50		
LON 68-291W	HR 18.4	W-COLOR		WND-FCE	03	CLD-TPE			
MARSD SQ 151	C/I 1810	W-TRNSP		BARO	1014.9	CLD-AMT	8	HW	03

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
184	0013	0453	29756		2360	14623

C-REF-NO 006	YR 1965	DEPTH	67	WAVES 1	XX	AIR T	07.7	VIS	
CONS. NO 014	MONTH 9	MXSAMPD	00	WAVES 2	XX	WET B		STN	
LAT 48-369N	DAY 21	NO.DPTH	1	WND-DIR	050	WW-CODE	50		
LON 68-273W	HR 18.4	W-COLOR		WND-FCE	03	CLD-TPE			
MARSD SQ 151	C/I 1810	W-TRNSP		BARO	1014.9	CLD-AMT	8	HW	03

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
184	0018	0452	29709		2356	14623

C-REF-NO 006	YR 1965	DEPTH	24	WAVES 1	XX	AIR T	07.7	VIS	
CONS. NO 015	MONTH 9	MXSAMPD	00	WAVES 2	XX	WET B		STN	
LAT 48-349N	DAY 21	NO.DPTH	1	WND-DIR	050	WW-CODE	50		
LON 68-258W	HR 18.5	W-COLOR		WND-FCE	03	CLD-TPE			
MARSD SQ 151	C/I 1810	W-TRNSP		BARO	1014.9	CLD-AMT	8	HW	03

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
185	0015	0408	29322		2330	14598
185	0021	0406	29389		2335	14599

C-REF-NO 006	YR 1965	DEPTH	64	WAVES 1	XX	AIR T	09.4	VIS
CONS. NO 016	MONTH 9	MXSAMPD	01	WAVES 2	XX	WET B		STN
LAT 48-529N	DAY 22	NO.DPTH	5	WND-DIR	040	WW-CODE	05	
LON 68-394W	HR 18.0	W-COLOR		WND-FCE	02	CLD-TPE		
MARSD SQ 151	C/I 1810	W-TRNSP		BARO	1017.9	CLD-AMT	8	01

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
180	0015	0451	29708		2356	14622
180	0031	0234	31129		2488	14550
180	0042	0108	32176		2580	14510
180	0052	0049	32434		2604	14488
180	0060	0032	32546		2613	14483

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0434 I	2976 I		2362	14614	0043	00002	4284
0020	0393 I	3007 F		2390	14603	0085	00009	4015
0030	0250 C	3102 B		2477	14555	0121	00018	3182
0050	0057	3241 B		2602	14491	0173	00038	2000

C-REF-NO 006	YR 1965	DEPTH 197	WAVES 1	XX	AIR T 09.4	VIS
CONS. NO 017	MONTH 9	MXSAMPD 02	WAVES 2	XX	WET B	STN
LAT 48-504N	DAY 22	NO.DPTH 9	WND-DIR 040	WW-CODE 05		
LON 68-375W	HR 18.1	W-COLOR	WND-FCE 02	CLD-TPE		
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1017.2	CLD-AMT 8	HW 01	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
181	0014	0342	30153		2401	14581
181	0021	0325	30254		2411	14576
181	0031	0257	31292		2499	14562
181	0041	0141	32007		2564	14522
181	0051	0093	32205		2583	14505
181	0076	0006	32606		2620	14475
181	0101	0100	33172		2660	14530
181	0131	0231	33650		2689	14599
181	0193	0368	34196		2720	14676

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0351 B	2996 I		2385	14582	0040	00002	4062
0020	0329	30222		2408	14577	0080	00008	3844
0030	0266	3117 C		2489	14564	0115	00017	3076
0050	0096	32197		2582	14506	0167	00038	2186
0075	0007	32590		2618	14475	0218	00070	1841
0100	0094	33149		2658	14527	0260	00106	1461
0125	0206 B	33569		2684	14586	0293	00145	1219
0150	0272 I	3391 B		2706	14624	0322	00184	1018
0175	0333 E	34117		2717	14657	0346	00225	0916

C-REF-NO 006	YR 1965	DEPTH 320	WAVES 1 XX	AIR T 08.3	VIS
CONS. NO 018	MONTH 9	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-484N	DAY 22	NO.DPTH 12	WND-DIR 040	WW-CODE 05	
LON 68-361W	HR 17.9	W-COLOR	WND-FCE 02	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1016.5	CLD-AMT 8	HW 01

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
179	0000	053 B	29430		2326	14649
179	0010	0490	29528		2338	14635
179	0020	0295	30245		2412	14563
179	0030	0237	31173		2491	14552
179	0040	0176	31867		2551	14536
185	0050	0121	32132		2575	14516
185	0075	0015	32557		2615	14478
185	0100	0064	33012		2649	14511
185	0149	0265	33766		2695	14619
185	0199	0378	34207		2720	14681
185	0249	0418	34387		2730	14709
185	0309	0429	34434		2733	14724

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0530 B	29430		2326	14649	0000	00000	4624
0010	0490	29528		2338	14635	0046	00002	4511
0020	0295	30245		2412	14563	0088	00009	3801
0030	0237	31173		2491	14552	0122	00017	3054
0050	0121	32132		2575	14516	0175	00038	2250
0075	0015	32557		2615	14478	0227	00071	1869
0100	0064	33012		2649	14511	0270	00109	1547
0125	0163 I	33428		2676	14565	0306	00150	1294
0150	0268	33778		2696	14620	0336	00192	1112
0175	0334	34032		2710	14656	0363	00236	0981
0200	0379	34213		2720	14682	0386	00281	0891
0225	0405 B	34325		2727	14699	0408	00329	0835
0250	0427 F	3442 B		2731	14713	0429	00379	0794
0300	0433 B	34448		2733	14724	0468	00491	0780

C-REF-NO 006 YR 1965 DEPTH 340 WAVES 1 XX AIR T 07.7 VIS
 CONS. NO 019 MONTH 9 MXSAMPD 03 WAVES 2 XX WET B STN
 LAT 48-449N DAY 22 NO.DPTH 11 WND-DIR 040 WW-CODE 05
 LON 68-335W HR 18.1 W-COLOR WND-FCE 01 CLD-TPE
 MARSD SQ 151 C/I 1810 W-TRNSP BARO 1015.9 CLD-AMT 9 HW 01

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
181	0017	0402	29849		2372	14603
181	0023	0371	30490		2426	14599
181	0033	0251	31314		2501	14560
181	0044	0163	32017		2563	14533
181	0054	0064	32331		2595	14494
181	0079	0022	32752		2631	14485
181	0102	0049	32978		2647	14504
181	0154	0289	33886		2703	14632
181	0201	0376	34221		2721	14681
181	0253	0428	34423		2732	14714
181	0336	0433	34464		2735	14730

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0426 C	2978 I		2365	14611	0042	00002	4257
0020	0389	3016 B		2397	14602	0084	00008	3945
0030	0289 D	31092		2480	14573	0119	00017	3155
0050	0102 C	32229		2584	14509	0173	00038	2165
0075	0016 E	32708		2627	14481	0222	00069	1755
0100	0044	32959		2646	14501	0264	00107	1577
0125	0149 I	3338 F		2673	14558	0301	00148	1320
0150	0269 E	3382 B		2699	14621	0331	00191	1083
0175	0338 D	3407 B		2713	14658	0357	00233	0953
0200	0375	34217		2721	14680	0380	00278	0883
0225	0405	34334		2727	14699	0401	00325	0829
0250	0426	34416		2732	14713	0422	00374	0792
0300	0445	34498		2736	14730	0461	00484	0755

C-REF-NO 006	YR 1965	DEPTH 333	WAVES 1 XX	AIR T 07.2	VIS
CONS. NO 020	MONTH 9	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-413N	DAY 22	NO-DPTH 11	WND-DIR 040	WW-CODE 05	
LDN 68-308W	HR 18.0	W-COLOR	WND-FCE 01	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1015.2	CLD-AMT 9	HW 01

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
180	0017	0459	29737		2358	14626
180	0023	0394	29975		2383	14602
180	0033	0292	30998		2473	14574
180	0045	0184	31798		2544	14539
180	0055	0089	32229		2585	14504
180	0079	0107	33215		2663	14530
180	0101	0201	33534		2682	14580
180	0156	0278	33822		2699	14626
180	0203	0349	34104		2715	14668
180	0255	0399	34314		2726	14701
180	0330	0432	34445		2733	14729

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0467 G	2952 D		2340	14625	0044	00002	4492
0020	0429 B	29831		2368	14615	0088	00009	4225
0030	0322	3067 E		2444	14582	0127	00019	3502
0050	0133 C	32028		2566	14520	0186	00042	2337
0075	0089 F	3308 B		2653	14519	0234	00071	1513
0100	0196	33527		2682	14577	0269	00102	1243
0125	0248 I	3370 D		2692	14606	0299	00137	1152
0150	0275 D	3381 B		2698	14624	0327	00176	1096
0175	0308	33939		2705	14644	0354	00221	1027
0200	0345	34087		2714	14666	0379	00269	0952
0225	0373	34205		2720	14684	0402	00319	0892
0250	0395	34298		2726	14698	0424	00373	0847
0300	0426	34419		2732	14721	0465	00490	0794

C-REF-NO 006	YR 1965	DEPTH 220	WAVES 1 00X0	AIR T 06.6	VIS
CONS. NO 021	MONTH 9	MXSAMPD 02	WAVES 2 XX	WET B	STN
LAT 48-387N	DAY 22	NO.DPTH 9	WND-DIR CALM	WW-CODE 05	
LON 68-291W	HR 18.1	W-COLOR	WND-FCE 00	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1015.2	CLD-AMT 9	HW 01

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
181	0014	0425	29789		2365	14612
181	0024	0350	29995		2388	14584
181	0034	0321	30325		2417	14577
181	0044	0193	31686		2535	14541
181	0055	0041	32740		2629	14489
181	0077	0105	33209		2663	14528
181	0103	0204	33557		2684	14582
181	0154	0279	33832		2699	14626
181	0217	0367	34163		2718	14679

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0410 I	29766		2365	14604	0043	00002	4257
0020	0381 E	29895		2377	14595	0085	00009	4135
0030	0336 F	3012 E		2400	14580	0125	00019	3924
0050	0103 F	32324		2592	14511	0186	00042	2094
0075	0089 G	3322 D		2664	14521	0230	00069	1407
0100	0193	33526		2682	14576	0263	00099	1241
0125	0246 F	3371 C		2692	14606	0293	00133	1144
0150	0276 B	33820		2699	14624	0321	00173	1087
0175	0336 I	3404 F		2711	14657	0347	00216	0979
0200	0359 H	3413 C		2716	14673	0372	00262	0934

C-REF-NO 006	YR 1965	DEPTH	61	WAVES 1 00X0	AIR T 06.6	VIS
CONS. NO 022	MONTH 9	MXSAMPD	01	WAVES 2 XX	WET B	STN
LAT 48-369N	DAY 22	NO.DPTH	4	WND-DIR CALM	WW-CODE 05	
LON 68-273W	HR 18.1	W-COLOR		WND-FCE 00	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP		BARO 1014.9	CLD-AMT 9	HW 01

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
181	0012	0447	29588		2347	14618
181	0026	0380	29886		2377	14596
181	0042	0137	32177		2578	14523
181	0058	0069	32891		2639	14505

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0459 E	2937 I		2329	14620	0045	00002	4597
0020	0422 B	2964 G		2354	14609	0090	00009	4362
0030	0319 I	3044 I		2426	14578	0131	00019	3675
0050	0131 I	3221 I		2581	14522	0190	00042	2194

C-REF-NO 006	YR 1965	DEPTH 62	WAVES 1 00X0	AIR T 17.7	VIS
CONS. NO 023	MONTH 9	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 48-529N	DAY 23	NO.DPTH 5	WND-DIR CALM	WW-CODE 42	
LON 68-394W	HR 17.5	W-COLOR	WND-FCE 00	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1008.4	CLD-AMT 8	HW 00

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
175	0014	0378	30134		2397	14596
175	0021	0287	30958		2470	14569
175	0031	0186	31683		2535	14536
175	0041	0132	31977		2562	14518
175	0059	0108	32116		2575	14512

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0372 I	3021 I		2403	14594	0039	00002	3886
0020	0301 B	3083 B		2459	14573	0076	00007	3361
0030	0194	31632		2531	14539	0106	00015	2676
0050	0103 B	3219 D		2581	14509	0155	00035	2199

C-REF-NO 006	YR 1965	DEPTH 197	WAVES 1 00X0	AIR T 17.7	VIS
CONS. NO 024	MONTH 9	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 48-504N	DAY 23	NO.DPTH 5	WND-DIR CALM	WW-CODE 42	
LON 68-374W	HR 17.6	W-COLOR	WND-FCE 00	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1008.4	CLD-AMT 8	HW 00

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
176	0015	0400	30012		2385	14604
176	0023	0254	30855		2464	14554
176	0030	0244	31365		2506	14557
176	0042	0140	32049		2567	14522
176	0053	0092	32180		2581	14504

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0366 I	3004 I		2390	14589	0041	00002	4011
0020	0306 I	3052 D		2434	14571	0079	00008	3600
0030	0244	31365		2506	14557	0112	00016	2914
0050	0113 F	3217 B		2579	14513	0163	00036	2219

C-REF-NO 006	YR 1965	DEPTH 321	WAVES 1 00X0	AIR T 17.7	VIS
CONS. NO 025	MONTH 9	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-484N	DAY 23	NO.DPTH 12	WND-DIR CALM	WW-CODE 42	
LON 68-361W	HR 17.4	W-COLOR	WND-FCE 00	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1008.4	CLD-AMT 8	HW 00

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
174	0000	065 B	27320		2147	14670
174	0010	0408	29460		2341	14599
174	0020	0370	29964		2384	14591
174	0030	0344	30587		2436	14590
174	0040	0205	31683		2534	14546
176	0051	0088	32226		2585	14503
176	0075	0021	32554		2615	14481
176	0100	0020	32792		2634	14488
176	0150	0212	33552		2683	14593
176	0200	0339	34050		2711	14663
176	0249	0416	34390		2731	14708
176	0309	0431	34436		2733	14725

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0650 B	27320		2147	14670	0000	00000	6338
0010	0408	29460		2341	14599	0054	00002	4486
0020	0370	29964		2384	14591	0097	00009	4073
0030	0344	30587		2436	14590	0136	00018	3580
0050	0097	32196		2582	14506	0194	00041	2187
0075	0021	32554		2615	14481	0245	00073	1874
0100	0020	32792		2634	14488	0290	00113	1692
0125	0104 I	3317 C		2659	14535	0329	00158	1455
0150	0212	33552		2683	14593	0363	00206	1237
0175	0283	33827		2699	14631	0393	00254	1089
0200	0339	34050		2711	14663	0419	00304	0974
0225	0385	34250		2723	14689	0442	00355	0871
0250	0415 B	3437 B		2729	14707	0463	00407	0814
0300	0433	34446		2733	14725	0503	00520	0782

C-REF-NO 006	YR 1965	DEPTH 340	WAVES 1 00X0	AIR T 17.7	VIS
CONS. NO 026	MONTH 9	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-449N	DAY 23	NO.DPTH 11	WND-DIR CALM	WW-CODE 42	
LON 68-335W	HR 17.6	W-COLOR	WND-FCE 00	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1008.4	CLD-AMT 8	HW 00

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
176	0017	0392	29504		2346	14594
176	0025	0305	30219		2410	14568
176	0034	0236	31309		2502	14554
176	0044	0127	32001		2564	14516
176	0054	0082	32245		2587	14501
176	0079	0008	32658		2624	14477
176	0104	0088	33133		2658	14524
176	0154	0254	33721		2693	14614
176	0204	0368	34179		2719	14678
176	0253	0428	34423		2732	14714
176	0336	0436	34467		2735	14732

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0393 I	2933 D		2332	14591	0045	00002	4569
0020	0361 C	29731		2366	14585	0089	00009	4242
0030	0266 C	3083 D		2462	14560	0128	00019	3333
0050	0096 B	3218 B		2580	14506	0183	00040	2201
0075	0013 B	32599		2619	14478	0234	00072	1836
0100	0070 D	33059		2653	14514	0276	00109	1515
0125	0160 C	3342 B		2676	14564	0312	00150	1300
0150	0242	33685		2691	14607	0343	00194	1160
0175	0308	33934		2705	14644	0370	00239	1031
0200	0361	34149		2717	14673	0395	00287	0921
0225	0399	34306		2726	14696	0417	00335	0843
0250	0426	34413		2731	14713	0438	00385	0793
0300	0449	34515		2737	14732	0477	00495	0748

C-REF-NO 006	YR 1965	DEPTH 334	WAVES 1 00X0	AIR T 17.7	VIS
CONS. NO 027	MONTH 9	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-413N	DAY 23	NO.DPTH 11	WND-DIR CALM	WW-CODE 42	
LON 68-308W	HR 17.6	W-COLOR	WND-FCE 00	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARD 1008.4	CLD-AMT 8	HW 00

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
176	0018	0397	28418		2259	14582
176	0024	0392	29801		2369	14599
176	0034	0330	30171		2404	14579
176	0044	0233	31279		2500	14554
176	0056	0130	32132		2575	14521
176	0079	0090	33126		2657	14521
176	0104	0191	33499		2680	14575
176	0154	0280	33819		2698	14627
176	0203	0338	34049		2711	14663
176	0254	0411	34343		2727	14706
176	0330	0433	34462		2735	14729

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0411 D	2862 I		2274	14589	0052	00003	5124
0020	0397	2889 G		2296	14589	0102	00010	4909
0030	0361 B	3012 I		2397	14591	0147	00021	3945
0050	0177 B	3175 B		2541	14536	0212	00047	2574
0075	0085 B	33006		2648	14516	0265	00079	1564
0100	0171 D	3347 B		2679	14565	0300	00110	1268
0125	0239 E	3367 C		2690	14602	0331	00145	1166
0150	0276 B	33805		2698	14624	0359	00185	1098
0175	0306 B	33919		2704	14643	0386	00230	1040
0200	0335	34035		2711	14661	0412	00279	0981
0225	0372 C	34183		2719	14683	0436	00331	0908
0250	0406	34322		2726	14703	0458	00385	0840
0300	0425 E	3442 B		2732	14721	0499	00501	0795

C-REF-NO 006	YR 1965	DEPTH 220	WAVES 1 00X0	AIR T 17.7	VIS
CONS. NO 028	MONTH 9	MXSAMPD 02	WAVES 2 XX	WET B	STN
LAT 48-387N	DAY 23	NO.DPTH 9	WND-DIR CALM	WW-CODE 42	
LON 68-291W	HR 17.7	W-COLOR	WND-FCE 00	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1008.4	CLD-AMT 8	HW 00

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
177	0014	0392	29513		2346	14594
177	0024	0379	29944		2382	14596
177	0034	0342	30129		2399	14584
177	0043	0192	31693		2536	14541
177	0053	0035	32557		2614	14484
177	0079	0086	33095		2655	14519
177	0105	0176	33417		2674	14568
177	0152	0268	33794		2697	14621
177	0217	0371	34213		2721	14681

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0397 B	2958 I		2351	14596	0044	00002	4383
0020	0386	2977 C		2367	14596	0088	00009	4238
0030	0366 E	2997 I		2385	14592	0129	00019	4064
0050	0076 C	3237 C		2597	14499	0191	00043	2047
0075	0055 I	3310 F		2657	14504	0235	00070	1476
0100	0158 B	33367		2672	14558	0270	00102	1181
0125	0222 C	33597		2685	14593	0303	00138	1209
0150	0265	33781		2697	14619	0332	00179	1107
0175	0323 H	3400 C		2709	14651	0358	00224	0998
0200	0355 D	3414 B		2717	14671	0382	00270	0924

C-REF-NO 006	YR 1965	DEPTH 62	WAVES 1 00X0	AIR T 17.7	VIS
CONS. NO 029	MONTH 9	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 48-369N	DAY 23	NO.DPTH 4	WND-DIR CALM	WW-CODE 45	
LON 68-273W	HR 17.6	W-COLOR	WND-FCE 00	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1008.4	CLD-AMT 9	HW 00

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
176	0012	0480	29740		2356	14634
176	0027	0368	29941		2382	14591
176	0042	0175	31908		2554	14536
176	0058	0094	32492		2606	14510

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0479 D	2951 I		2338	14630	0044	00002	4514
0020	0433 B	2972 H		2359	14615	0089	00009	4310
0030	0328 E	3032 I		2416	14580	0129	00019	3771
0050	0149 I	3190 I		2555	14526	0192	00044	2440

C-REF-NO 006	YR 1965	DEPTH	22	WAVES 1 00X0	AIR T 17.7	VIS
CONS. NO 030	MONTH 9	MXSAMPD	00	WAVES 2 XX	WET B	STM
LAT 48-349N	DAY 23	NO.DPTH	2	WND-DIR CALM	WW-CODE 45	
LON 68-258W	HR 17.8	W-COLOR		WND-FCE 00	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP		BARO 1008.4	CLD-AMT 9	HW 00

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
178	0013	0478	29014		2299	14623
178	0018	0420	29292		2326	14603

C-REF-NO 006	YR 1965	DEPTH 64	WAVES 1 XX	AIR T 14.9	VIS
CONS. NO 031	MONTH 9	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 48-529N	DAY 24	NO.DPTH 5	WND-DIR 250	WW-CODE 40	
LON 68-394W	HR 17.8	W-COLOR	WND-FCE 02	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1005.7	CLD-AMT 8	HW 00

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
178	0016	0422	29550		2346	14607
178	0023	0350	29969		2386	14583
178	0033	0298	30628		2443	14571
178	0043	0243	31303		2501	14558
178	0061	0101	32103		2574	14509

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0416 I	2949 E		2342	14603	0045	00002	4472
0020	0382 C	29772		2368	14594	0088	00009	4228
0030	0311 B	30426		2426	14574	0128	00019	3676
0050	0190 B	3162 C		2530	14540	0192	00044	2680

C-REF-NO 006	YR 1965	DEPTH 200	WAVES 1 XX	AIR T 14.9	VIS
CONS. NO 032	MONTH 9	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 48-504N	DAY 24	NO.DPTH 4	WND-DIR 250	WW-CODE 45	
LON 68-374W	HR 17.2	W-COLOR	WND-FCE 02	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1005.7	CLD-AMT 8	Hw 11

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
172	0018	0370	29893		2378	14590
172	0032	0257	31299		2499	14562
172	0041	0178	31854		2549	14537
172	0052	0114				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0375 H	2998 I		2385	14592	0041	00002	4063
0020	0357 B	3008 E		2394	14587	0082	00008	3977
0030	0277 B	3108 E		2480	14568	0117	00017	3153
0050	0126							

C-REF-NO 006	YR 1965	DEPTH 320	WAVES 1 XX	AIR T 14.9	VIS
CONS. NO 033	MONTH 9	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-484N	DAY 24	NO.DPTH 13	WND-DIR 240	WW-CODE 45	
LON 68-361W	HR 17.1	W-COLOR	WND-FCE 02	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1005.7	CLD-AMT 8	HW 11

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
171	0000	061 B	28611		2253	14671
171	0011	0428	29160		2315	14604
171	0021	0474	29585		2344	14631
171	0031	0333	30652		2442	14587
171	0041	0273	31119		2484	14568
171	0051	0139	31973		2561	14522
174	0075	0022	32480		2609	14480
174	0100	0025	32799		2634	14490
174	0125	0099	33140		2657	14533
174	0150	0217	33580		2684	14595
174	0200	0369	34157		2717	14677
174	0249	0416	34376		2730	14708
174	0309	0436	34462		2734	14727

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0610 B	28611		2253	14671	0000	00000	5324
0010	0507 I	2898 I		2293	14634	0051	00003	4939
0020	0469 F	2953 B		2340	14628	0099	00010	4490
0030	0349 D	3054 C		2432	14592	0140	00020	3617
0050	0153 B	3189 B		2554	14527	0201	00044	2456
0075	0022	32480		2609	14480	0256	00078	1931
0100	0025	32799		2634	14490	0301	00119	1689
0125	0099	33140		2657	14533	0341	00164	1470
0150	0217	33580		2684	14595	0375	00212	1220
0175	0307	33916		2704	14643	0404	00259	1043
0200	0369	34157		2717	14677	0428	00306	0922
0225	0401 C	34299		2725	14697	0451	00355	0851
0250	0431 I	3442 C		2731	14715	0471	00405	0794
0300	0441 B	34477		2735	14728	0511	00516	0767

C-REF-NO 006	YR 1965	DEPTH 341	WAVES 1 XX	AIR T 14.9	VIS
CONS. NO 034	MONTH 9	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-449N	DAY 24	NO.DPTH 11	WND-DIR 240	WW-CODE 45	
LON 68-335W	HR 17.3	W-COLOR	WND-FCE 02	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1005.7	CLD-AMT 8	HW 11

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
173	0018	0430	29113		2311	14605
173	0030	0387	29976		2383	14600
173	0041	0255	31003		2476	14559
173	0052	0231	31706		2534	14560
173	0081	0017	32666		2624	14482
173	0105	0131	33297		2668	14546
173	0131	0226	33644		2689	14597
173	0154	0275	33808		2698	14624
173	0204	0346	34106		2715	14667
173	0254	0421	34387		2730	14711
173	0337	0434	34453		2734	14731

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0456 G	2902 F		2301	14614	0048	00002	4863
0020	0428 B	29224		2320	14606	0096	00010	4683
0030	0387	29976		2383	14600	0140	00021	4079
0050	0233 D	31597		2525	14559	0209	00048	2730
0075	0054 I	3253 D		2611	14496	0267	00084	1910
0100	0097 H	33184		2661	14528	0309	00121	1436
0125	0207	33587		2686	14587	0342	00159	1206
0150	0268	33785		2697	14620	0372	00200	1107
0175	0308 B	33939		2705	14644	0398	00244	1026
0200	0341	34084		2714	14664	0423	00292	0950
0225	0380 B	34236		2722	14687	0446	00342	0876
0250	0416	34368		2729	14708	0468	00394	0816
0300	0432 E	3445 B		2733	14724	0508	00508	0781

C-REF-NO 006	YR 1965	DEPTH 334	WAVES 1	XX	AIR T 14.9	VIS
CONS. NO 035	MONTH 9	MXSAMPD 03	WAVES 2	XX	WET B	STN
LAT 48-413N	DAY 24	NO.DPTH 11	WND-DIR 240	WW-CODE 45		
LON 68-308W	HR 17.3	W-COLOR	WND-FCE 02	CLD-TPE		
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1005.7	CLD-AMT 9	HW 11	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
173	0018	0458	28812		2285	14613
173	0026	0406	29716		2361	14604
173	0035	0322	30135		2402	14575
173	0045	0207	31527		2521	14546
173	0056	0099	32290		2589	14510
173	0081	0085	33035		2650	14518
173	0105	0131	33269		2666	14546
173	0156	0283	33831		2699	14629
173	0205	0341	34069		2713	14665
173	0255	0416	34375		2729	14709
173	0331	0434	34443		2733	14730

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0471 B	2887 I		2288	14618	0050	00003	4989
0020	0448	2904 D		2303	14612	0100	00010	4843
0030	0371	2989 G		2378	14593	0145	00021	4129
0050	0153 B	3194 C		2558	14528	0210	00047	2415
0075	0071 H	3294 C		2643	14509	0261	00078	1605
0100	0118	3324 B		2664	14539	0299	00111	1407
0125	0192 G	3350 B		2680	14579	0332	00150	1258
0150	0266 C	33771		2696	14619	0362	00192	1115
0175	0310 D	3394 B		2705	14645	0389	00237	1030
0200	0337 B	34050		2712	14662	0415	00285	0972
0225	0373 C	3420 B		2720	14683	0438	00336	0896
0250	0409	34348		2728	14705	0460	00389	0825
0300	0427 F	3442 C		2732	14721	0501	00505	0796

C-REF-NO 006	YR 1965	DEPTH	217	WAVES 1	XX	AIR T	14.9	VIS	
CONS. NO 036	MONTH 9	MXSAMPD	02	WAVES 2	XX	WET B		STN	
LAT 48-387N	DAY 24	NO.DPTH	9	WND-DIR	240	WW-CODE	45		
LON 68-291W	HR 17.3	W-COLOR		WND-FCE	02	CLD-TPE			
MARSD SQ 151	C/I 1810	W-TRNSP		BARO	1005.7	CLD-AMT	9	H	11

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
173	0011	0531	28515		2254	14639
173	0025	0411	29833		2370	14608
173	0037	0226	31268		2499	14549
173	0049	0176	31905		2554	14538
173	0062	0063	32332		2595	14495
173	0076	0049	32796		2633	14497
173	0102	0155	33354		2671	14557
173	0152	0252	33748		2695	14613
173	0214	0354	34135		2717	14673

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0530 C	2863 I		2263	14640	0053	00003	5228
0020	0468 B	2926 E		2319	14623	0103	00010	4695
0030	0330 I	3046 F		2427	14583	0145	00021	3664
0050	0167 B	31943		2557	14534	0206	00044	2422
0075	0047	32765		2630	14496	0258	00077	1787
0100	0144 C	33322		2669	14551	0297	00111	1361
0125	0209 E	3360 D		2686	14588	0329	00148	1201
0150	0250	33742		2695	14612	0359	00189	1124
0175	0314 I	3405 I		2713	14648	0385	00233	0951
0200	0344 E	3413 D		2717	14666	0408	00278	0919

C-REF-NO 006	YR 1965	DEPTH 60	WAVES 1 XX	AIR T 14.9	VIS
CONS. NO 037	MONTH 9	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 48-369N	DAY 24	NO.DPTH 4	WND-DIR 240	WW-CODE 45	
LON 68-273W	HR 17.3	W-COLOR	WND-FCE 02	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1005.7	CLD-AMT 9	HW 11

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
173	0012	0462	28805		2284	14614
173	0027	0363	29849		2375	14588
173	0042	0225	31243		2497	14549
173	0057	0158	32042		2566	14533

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0456 F	2887 I		2289	14612	0050	00003	4976
0020	0419 C	2927 D		2324	14603	0098	00010	4641
0030	0334 C	3014 C		2401	14580	0141	00021	3912
0050	0196 G	3161 H		2529	14543	0208	00047	2694

C-REF-NO 006	YR 1965	DEPTH	22	WAVES 1	XX	AIR T	14.9	WIS	
CONS. NO 038	MONTH 9	MXSAMPD	00	WAVES 2	XX	WET B		STN	
LAT 48-349N	DAY 24	NO.DPTH	2	WND-DIR	240	WW-CODE	45		
LON 68-258W	HR 17.3	W-COLOR		WND-FCE	02	CLD-TPE			
MARSD SQ 151	C/I 1810	W-TRNSP		BARO	1005.7	CLD-AMT	9	Hk	11

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
173	0014	0478	28666		2271	14619
173	0019	0466	28876		2289	14618

C-REF-NO 006	YR 1965	DEPTH	63	WAVES 1	XX	AIR T	09.9	VIS
CONS. NO 039	MONTH 9	MXSAMPD	01	WAVES 2	XX	WET B		STN
LAT 48-529N	DAY 25	NO.DPTH	5	WND-DIR	230	WW-CODE	03	
LON 68-394W	HR 16.7	W-COLOR		WND-FCE	02	CLD-TPE		
MARSD SQ 151	C/I 1810	W-TRNSP		BARO	1000.3	CLD-AMT	8	HW 10

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
167	0015	0313	30569		2437	14574
167	0022	0277	30907		2467	14564
167	0032	0264	31059		2480	14562
167	0042	0203	31746		2539	14546
167	0060	0056	32373		2598	14492

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0306 H	3062 H		2442	14571	0036	00002	3522
0020	0287 B	3081 B		2458	14567	0070	00007	3367
0030	0267 C	3102 C		2477	14563	0103	00015	3190
0050	0153 D	3190 I		2554	14528	0160	00038	2449

C-REF-NO 006	YR 1965	DEPTH 195	WAVES 1 XX	AIR T 09.9	VIS
CONS. NO 040	MONTH 9	MXSAMPD 02	WAVES 2 XX	WET B	STN
LAT 48-504N	DAY 25	NO.DPTH 9	WND-DIR 230	WW-CODE 02	
LON 68-375W	HR 16.8	W-COLOR	WND-FCE 02	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1000.3	CLD-AMT 8	HM 10

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
168	0012	0422	29348		2330	14604
168	0024	0419	29998		2382	14613
168	0036	0232	31348		2505	14553
168	0048	0198	31738		2539	14545
168	0075	0040	32456		2606	14488
168	0100	0033	32846		2638	14495
168	0125	0056	32999		2649	14511
168	0150	0130	33285		2667	14553
168	0191	0256	33760		2696	14622

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0453 I	29294		2323	14616	0046	00002	4652
0020	0430 G	29706		2358	14614	0091	00009	4321
0030	0327 I	3069 I		2445	14584	0131	00019	3490
0050	0186 C	31800		2545	14541	0191	00043	2543
0075	0040	32456		2606	14488	0248	00078	1958
0100	0033	32846		2638	14495	0293	00119	1657
0125	0056	32999		2649	14511	0334	00165	1552
0150	0130	33285		2667	14553	0371	00217	1380
0175	0195 D	3355 B		2683	14589	0404	00271	1230

C-REF-NO 006	YR 1965	DEPTH 320	WAVES 1 XX	AIR T 09.9	VIS
CONS. NO 041	MONTH 9	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-484N	DAY 25	NO.DPTH 13	WND-DIR 230	WW-CODE 02	
LON 68-361W	HR 16.5	W-COLOR	WND-FCE 02	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1000.3	CLD-AMT 8	HW 10

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
165	0000	066 B				
165	0010	0469	28774		2281	14616
165	0020	0412	29276		2326	14600
165	0030	0350	30135		2399	14587
165	0040	0217	31346		2506	14547
165	0050	0200	31791		2543	14547
168	0074	0026	32478		2608	14482
168	0100	0034	32858		2638	14495
168	0125	0105	33221		2664	14537
168	0150	0194	33509		2681	14584
168	0200	0346	34073		2712	14666
168	0249	0417	34382		2730	14708
168	0309	0432	34436		2733	14725

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0660 B	2863 C		2248	14691	0000	00000	5368
0010	0469	28774		2281	14616	0052	00003	5060
0020	0412	29276		2326	14600	0101	00010	4629
0030	0350	30135		2399	14587	0144	00021	3927
0050	0200	31791		2543	14547	0209	00046	2560
0075	0024	32496		2610	14481	0265	00081	1920
0100	0034	32858		2638	14495	0310	00121	1648
0125	0105	33221		2664	14536	0349	00165	1413
0150	0194	33509		2681	14584	0383	00212	1256
0175	0277 B	3381 B		2698	14629	0412	00261	1098
0200	0346	34073		2712	14666	0438	00311	0963
0225	0390	34261		2723	14692	0461	00361	0868
0250	0423 C	34386		2730	14711	0483	00413	0810
0300	0437	34451		2733	14726	0523	00526	0782

C-REF-NO 006	YR 1965	DEPTH 339	WAVES 1 XX	AIR T 09.9
CONS. NO 042	MONTH 9	MXSAMPD 03	WAVES 2 XX	WET B
LAT 48-449N	DAY 25	NO.DPTH 11	WND-DIR 230	WW-CODE 02
LON 68-335W	HR 16.6	W-COLOR	WND-FCE 02	CLD-TPE
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1000.3	CLD-AMT 8

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
166	0017	0415	29260		2324	14601
166	0028	0433	29925		2375	14619
166	0040	0266	31035		2478	14564
166	0052	0177	31975		2559	14540
166	0079	0020	32755		2631	14484
166	0104	0127	33245		2664	14543
166	0129	0214	33586		2685	14591
166	0153	0253	33726		2693	14614
166	0205	0336	34048		2711	14662
166	0254	0426	34409		2731	14713
166	0336	0437	34457		2734	14732

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN
0010	0455 I	2916 C		2312	14615	0047	00002
0020	0427 F	29399		2334	14608	0094	00010
0030	0409 F	3010 B		2391	14612	0137	00020
0050	0189 B	31837		2547	14543	0202	00046
0075	0032 E	3271 D		2626	14488	0256	00079
0100	0102 F	33179		2660	14531	0297	00115
0125	0202	33543		2683	14584	0330	00153
0150	0249	33713		2692	14611	0360	00195
0175	0287	33857		2701	14634	0388	00242
0200	0328	34015		2710	14657	0414	00292
0225	0376 C	3421 B		2720	14685	0438	00343
0250	0420	34383		2730	14710	0459	00396
0300	0436 G	3445 D		2733	14725	0500	00509

C-REF-NO 006	YR 1965	DEPTH 334	WAVES 1	XX	AIR T 09.9	VIS
CONS. NO 043	MONTH 9	MXSAMPD 03	WAVES 2	XX	WET B	STN
LAT 48-413N	DAY 25	NO.DPTH 11	WND-DIR 230	WW-CODE 02		
LON 68-308W	HR 16.8	W-COLOR	WND-FCE 02	CLD-TPE		
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1000.3	CLD-AMT 8	HW 10	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
168	0018	0395	28841		2293	14587
168	0024	0369	29284		2330	14583
168	0036	0241	30851		2465	14550
168	0045	0178	31793		2544	14536
168	0055	0139	32135		2574	14525
168	0079	0048	32837		2636	14498
168	0105	0120	33246		2665	14540
168	0155	0279	33828		2699	14627
168	0204	0346	34112		2716	14667
168	0255	0410	34356		2729	14706
168	0331	0434	34443		2733	14730

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0416 B	28591		2271	14591	0051	00003	5150
0020	0389	28964		2303	14586	0101	00010	4845
0030	0308 F	3003 G		2395	14567	0145	00021	3971
0050	0156 B	3201 D		2563	14531	0209	00046	2363
0075	0058 D	32737		2627	14500	0261	00078	1754
0100	0099 D	33184		2661	14529	0301	00113	1437
0125	0187 E	33513		2681	14577	0335	00152	1248
0150	0265 B	33782		2697	14619	0364	00194	1105
0175	0312 C	33964		2707	14646	0391	00238	1012
0200	0342	34095		2715	14665	0416	00285	0943
0225	0375 B	34225		2722	14685	0438	00335	0880
0250	0405	34337		2728	14703	0460	00388	0828
0300	0428 C	34428		2732	14722	0501	00503	0789

C-REF-NO 006	YR 1965	DEPTH 64	WAVES 1	XX	AIR T 09.9	VIS
CONS. NO 044	MONTH 9	MXSAMPD 01	WAVES 2	XX	WET B	STN
LAT 48-369N	DAY 25	NO.DPTH 4	WND-DIR 230	WW-CODE 02		
LON 68-273W	HR 16.8	W-COLOR	WND-FCE 02	CLD-TPE		
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1000.3	CLD-AMT 8	HW 10	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
168	0015	0352	29257		2329	14573
168	0029	0299	30377		2423	14568
168	0045	0264	30500		2435	14557
168	0060	0201	31501		2520	14545

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0344 G	2949 I		2349	14572	0045	00002	4409
0020	0335 C	2965 I		2362	14572	0089	00009	4283
0030	0297	3039 C		2424	14567	0129	00019	3693
0050	0237 E	3107 I		2483	14553	0197	00047	3130

C-REF-NO 006	YR 1965	DEPTH	22	WAVES 1	XX	AIR T	09.9	VIS
CONS. NO 045	MONTH 9	MXSAMPD	00	WAVES 2	XX	WET B		STN
LAT 48-349N	DAY 25	NO.DPTH	2	WND-DIR	230	WW-CODE	02	
LON 68-258W	HR 16.9	W-COLOR		WND-FCE	02	CLD-TPE		
MARSD SQ 151	C/I 1810	W-TRNSP		BARO	1000.3	CLD-AMT	8	HW 10

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
169	0014	0412	28699		2280	14591
169	0019	0371	29174		2321	14581

C-REF-NO 006 YR 1965 DEPTH 63 WAVES 1 XX AIR T 07.2 VIS
 CONS. NO 046 MONTH 9 MXSAMPD 111 WAVES 2 XX WET B STN
 LAT 48-529N DAY 27 NO.DPTH 111 WND-DIR 270 WW-CODE 00
 LON 68-394W HR 17.2 W-COLOR 03 CLD-TPE
 MARSD SQ 151 C/I 1810 W-TRNSP BARO 1026.7 CLD-AMT 1 HW 09

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
172	0015	0293	30724		2451	14568
172	0021	0184	31739		2540	14534
172	0031	0075	32241		2587	14494
172	0041	0046	32427		2603	14485
172	0060	0023	32532		2613	14479

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0287 I	3089 I		2464	14566	0034	00002	3309
0020	0203 B	3157 I		2525	14540	0064	00006	2731
0030	0082	3223 I		2586	14497	0089	00012	2153
0040	0009 I	3259 I		2618	14472	0124	00029	1846

C-REF-NO 006 YR 1965 DEPTH 205 WAVES 1 XX AIR T 07.2 VIS
 CONS. NO 047 MONTH 9 MXSAMPD 02 WAVES 2 XX WET B STN
 LAT 48-504N DAY 27 NO.DPTH 9 WND-DIR 270 WW-CODE 00
 LON 68-375W HR 17.3 W-COLOR WND-FCE 03 CLD-TPE
 MARSD SQ 151 C/I 1810 W-TRNSP BARO 1026.7 CLD-AMT 1 HW 09

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
173	0022	0260	30977		2473	14558
173	0034	0153	31962		2560	14526
173	0046	0075	32269		2589	14497
173	0058	0040	32393		2601	14485
173	0085	0020	32763		2631	14485
173	0110	0080	33072		2653	14521
173	0134	0141	33329		2670	14556
173	0160	0213	33590		2686	14595
173	0201	0304	33934		2705	14646

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0263 I	3106 I		2480	14558	0032	00002	3158
0020	0242 I	3125 I		2497	14553	0063	00006	2997
0030	0191 D	3163 F		2531	14538	0092	00014	2674
0050	0060	32319		2594	14491	0139	00033	2074
0075	0018	32621		2620	14480	0188	00064	1822
0100	0051 C	32953		2645	14504	0231	00102	1585
0125	0118	33236		2664	14542	0269	00145	1409
0150	0186	33493		2680	14580	0303	00192	1262
0175	0245 B	33722		2693	14614	0333	00242	1136
0200	0302	33926		2705	14645	0360	00295	1032

C-REF-NO 006	YR 1965	DEPTH 320	WAVES 1 XX	AIR T 07.2	VIS
CONS. NO 048	MONTH 9	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-484N	DAY 27	NO.DPTH 13	WND-DIR 270	WW-CODE 00	
LON 68-361W	HR 16.9	W-COLOR	WND-FCE 04	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1026.7	CLD-AMT 1	HW 09

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
169	0000	053 B	28489		2252	14636
169	0010	0509	28502		2255	14629
169	0020	0412	29954		2379	14609
169	0030	0339	30310		2414	14584
169	0040	0221	31459		2515	14550
169	0050	0101	32197		2582	14508
173	0074	0066	32728		2626	14504
173	0100	0120	33259		2666	14540
173	0125	0189	33489		2679	14578
173	0150	0266	33782		2697	14619
173	0200	0358	34147		2717	14672
173	0250	0417	34411		2732	14709
173	0310	0431	34446		2733	14725

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0530 B	28489		2252	14636	0000	00000	5333
0010	0509	28502		2255	14629	0053	00003	5303
0020	0412	29954		2379	14609	0101	00010	4117
0030	0339	30310		2414	14584	0140	00020	3786
0050	0101	32197		2582	14508	0200	00043	2189
0075	0067	32752		2628	14505	0250	00074	1748
0100	0120	33259		2666	14540	0290	00109	1393
0125	0189	33489		2679	14578	0323	00147	1267
0150	0266	33782		2697	14619	0353	00189	1107
0175	0319 B	33989		2708	14649	0379	00233	0999
0200	0358	34147		2717	14672	0404	00279	0919
0225	0392	34299		2726	14693	0426	00328	0842
0250	0417	34411		2732	14709	0446	00378	0785
0300	0432	34453		2734	14724	0486	00489	0775

C-REF-NO 006	YR 1965	DEPTH 337	WAVES 1 XX	AIR T 07.2	VIS
CONS. NO 049	MONTH 9	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-449N	DAY 27	NO.DPTH 11	WND-DIR 270	WW-CODE 00	
LON 68-335W	HR 16.7	W-COLOR	WND-FCE 03	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1026.7	CLD-AMT 1	HW 09

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
167	0014	0337	29931		2384	14576
167	0025	0288	30669		2447	14566
167	0038	0225	31490		2517	14552
167	0049	0173	31896		2553	14536
167	0077	0060	32811		2633	14503
167	0100	0099	33187		2661	14529
167	0126	0196	33525		2682	14581
167	0152	0269	33795		2697	14621
167	0200	0341	34082		2714	14664
167	0250	0425	34407		2731	14712
167	0334	0436	34464		2734	14731

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0333 E	2998 I		2388	14574	0041	00002	4032
0020	0313 B	3030 D		2415	14571	0080	00008	3776
0030	0264	3101 B		2476	14561	0115	00017	3198
0050	0167	31934		2557	14534	0172	00039	2429
0075	0065 B	32757		2629	14504	0224	00072	1742
0100	0099	33187		2661	14529	0264	00107	1435
0125	0192	33513		2681	14579	0298	00146	1250
0150	0264	33777		2696	14619	0328	00188	1109
0175	0308 D	3395 B		2706	14644	0354	00232	1020
0200	0341	34082		2714	14664	0379	00280	0952
0225	0386 C	34256		2723	14690	0402	00330	0867
0250	0425	34407		2731	14712	0423	00381	0797
0300	0436 F	3446 C		2734	14726	0463	00493	0775

C-REF-NO 006	YR 1965	DEPTH 330	WAVES 1 XX	AIR T 07.2	VIS
CONS. NO 050	MONTH 9	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-413N	DAY 27	NO.DPTH 11	WND-DIR 270	WW-CODE 00	
LON 68-308W	HR 17.2	W-COLOR	WND-FCE 04	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1026.7	CLD-AMT 1	HW 09

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
172	0015	0353	30077		2394	14585
172	0022	0313	30303		2416	14572
172	0031	0253	31162		2489	14559
172	0042	0211	31593		2526	14548
172	0052	0151	31978		2561	14528
172	0077	0055	32743		2628	14499
172	0102	0113	33220		2663	14536
172	0152	0270	33825		2700	14622
172	0201	0342	34094		2715	14665
172	0252	0401	34313		2726	14701
172	0327	0432				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0357 C	2991 E		2381	14584	0041	00002	4104
0020	0326	30211		2407	14576	0081	00008	3850
0030	0259	3106 B		2480	14560	0116	00017	3155
0050	0163	31903		2554	14532	0172	00039	2450
0075	0058	32692		2624	14500	0225	00072	1788
0100	0105 B	33189		2661	14532	0266	00108	1437
0125	0187 F	33548		2684	14578	0300	00147	1221
0150	0264	33808		2699	14619	0329	00187	1085
0175	0310 C	3398 B		2708	14645	0355	00231	1002
0200	0341	34090		2714	14664	0379	00278	0945
0225	0373	3425 C		2724	14684	0402	00328	0861
0250	0399	34310		2726	14700	0424	00380	0842
0300	0426							

C-REF-NO 006	YR 1965	DEPTH 219	WAVES 1	XX	AIR T 07.2	VIS
CONS. NO 051	MONTH 9	MXSAMPD 02	WAVES 2	XX	WET B	STN
LAT 48-387N	DAY 27	NO.DPTH 9	WND-DIR 270	WW-CODE 00		
LON 68-291W	HR 17.2	W-COLOR	WND-FCE 04	CLD-TPE		
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1026.7	CLD-AMT 1	HW 09	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
172	0013	0360	29865		2377	14585
172	0027	0332	30177		2404	14579
172	0039	0307	30476		2430	14574
172	0051	0254	31025		2478	14560
172	0063	0215	31497		2518	14552
172	0076	0141	32200		2579	14531
172	0103	0115	33232		2664	14538
172	0153	0276	33831		2700	14625
172	0216	0364	34177		2719	14678

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0358 C	2989 C		2379	14583	0041	00002	4123
0020	0348	3000 B		2389	14582	0082	00008	4029
0030	0327	30239		2409	14578	0122	00018	3830
0050	0259	30976		2473	14562	0193	00047	3220
0075	0147	32145		2575	14532	0262	00089	2256
0100	0112 B	33144		2657	14534	0309	00130	1475
0125	0174 I	3362 G		2691	14573	0342	00168	1158
0150	0264 C	3382 B		2700	14619	0370	00208	1074
0175	0258 I	3426 I		2735	14627	0393	00245	0742
0200	0319 I	3427 H		2731	14657	0412	00282	0786

C-REF-NO 006	YR 1965	DEPTH 60	WAVES 1 XX	AIR T 07.2	VIS
CONS. NO 052	MONTH 9	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 48-369N	DAY 27	NO.DPTH 4	WND-DIR 270	WW-CODE 00	
LON 68-273W	HR 17.2	W-COLOR	WND-FCE 04	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1026.7	CLD-AMT 1	HW 09

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
172	0012	0386	29536		2349	14591
172	0026	0349	29756		2369	14581
172	0042	0257	30634		2446	14555
172	0057	0225	31034		2481	14549

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0386	2948 C		2344	14590	0044	00002	4452
0020	0370	2962 B		2356	14587	0089	00009	4337
0030	0326 D	2997 E		2388	14574	0131	00020	4036
0050	0248 G	3076 I		2457	14554	0205	00050	3379

C-REF-NO 006	YR 1965	DEPTH	20	WAVES 1	XX	AIR T	07.2	VIS	
CONS. NO 053	MONTH 9	MXSAMPD	00	WAVES 2	XX	WET B		STN	
LAT 48-349N	DAY 27	NO.DPTH	2	WND-DIR	270	WW-CODE	00		
LON 68-258W	HR 17.2	W-COLOR		WND-FCE	04	CLD-TPE			
MARSD SQ 151	C/I 1810	W-TRNSP		BARO	1026.7	CLD-AMT	1	HW	09

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
172	0012	0426	28956		2299	14601
172	0017	0421	28989		2302	14600

C-REF-NO 006	YR 1965	DEPTH 63	WAVES 1 XX	AIR T 08.8	VIS
CONS. NO 054	MONTH 9	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 48-529N	DAY 28	NO.DPTH 5	WND-DIR 230	WW-CODE 03	
LON 68-394W	HR 16.5	W-COLOR	WND-FCE 05	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1028.1	CLD-AMT 2	HW 08

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
165	0015	0285	30861		2462	14566
165	0021	0206	31529		2521	14541
165	0031	0080	32286		2590	14497
165	0041	0049	32393		2600	14486
165	0060	0024	32744		2630	14482

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0291 I	3087 I		2463	14568	0033	00002	3323
0020	0221	3141 B		2511	14546	0065	00006	2863
0030	0090 B	32235		2585	14501	0090	00013	2154
0050	0007 I	3275 I		2631	14473	0129	00028	1721

C-REF-NO 006	YR 1965	DEPTH 195	WAVES 1	XX	AIR T 08.8	VIS
CONS. NO 055	MONTH 9	MXSAMPD 02	WAVES 2	XX	WET B	STN
LAT 48-504N	DAY 28	NO.DPTH 9	WND-DIR 230	WW-CODE 02		
LON 68-375W	HR 16.8	W-COLOR	WND-FCE 05	CLD-TPE		
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1028.1	CLD-AMT 2	HW 08	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
168	0013	0363	29875		2377	14586
168	0022	0257	31070		2481	14558
168	0034	0201	31535		2522	14541
168	0046	0093	32282		2589	14505
168	0073	0057	32959		2645	14503
168	0097	0152	33392		2674	14555
168	0121	0220	33627		2688	14593
168	0147	0243	33698		2692	14608
168	0192	0298	33911		2704	14642

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0341 I	3014 I		2400	14580	0040	00002	3917
0020	0282 D	3079 F		2457	14564	0077	00008	3375
0030	0217 F	3144 G		2513	14546	0108	00015	2841
0050	0074 C	3243 C		2602	14499	0157	00034	1995
0075	0063 B	33002		2648	14506	0202	00062	1555
0100	0162	33431		2677	14561	0237	00094	1291
0125	0225 B	33643		2689	14596	0269	00130	1178
0150	0261 I	3377 D		2696	14617	0297	00170	1115
0175	0288 E	3387 C		2702	14634	0325	00216	1062

C-REF-NO 006	YR 1965	DEPTH 320	WAVES 1 XX	AIR T 08.8	VIS
CONS. NO 056	MONTH 9	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-481N	DAY 28	NO.DPTH 13	WND-DIR 230	WW-CODE 02	
LON 68-369W	HR 16.7	W-COLOR	WND-FCE 05	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1028.1	CLD-AMT 2	HW 08

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
167	0000	051 B	28606		2263	14629
167	0010	0498	28618		2265	14626
167	0020	0389	30012		2386	14600
167	0030	0325	30443		2426	14580
167	0040	0234	31308		2502	14554
167	0050	0100	32350		2594	14510
171	0072	0125	33275		2667	14538
171	0096	0205	33578		2685	14581
171	0120	0268	33815		2699	14616
171	0144	0291	33894		2703	14631
171	0192	0351	34121		2716	14668
171	0240	0421	34410		2732	14709
171	0300	0431	34459		2735	14724

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0510 B	28606		2263	14629	0000	00000	5225
0010	0498	28618		2265	14626	0052	00003	5205
0020	0389	30012		2386	14600	0099	00010	4053
0030	0325	30443		2426	14580	0138	00019	3674
0050	0100	32350		2594	14510	0195	00041	2072
0075	0134 B	3334 B		2671	14543	0238	00068	1344
0100	0217	33625		2688	14588	0270	00096	1184
0125	0274 B	33837		2700	14620	0299	00129	1071
0150	0298	33918		2705	14635	0325	00166	1032
0175	0329	34032		2711	14654	0350	00208	0975
0200	0364 B	34175		2719	14675	0374	00254	0904
0225	0402 B	3433 B		2727	14697	0396	00301	0829
0250	0415 H	3439 D		2730	14708	0417	00351	0805
0300	0431	34459		2735	14724	0456	00463	0769

C-REF-NO 006	YR 1965	DEPTH 336	WAVES 1	XX	AIR T 08.8	VIS
CONS. NO 057	MONTH 9	MXSAMPD 03	WAVES 2	XX	WET B	STN
LAT 48-449N	DAY 28	NO.DPTH 10	WND-DIR 230	WW-CODE 02		
LON 68-335W	HR 13.5	W-COLOR	WND-FCE 05	CLD-TPE		
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1028.1	CLD-AMT 2	HW 05	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
167	0003	0515	28730		2273	14634
167	0014	0374	29963		2383	14592
167	0026	0270	30987		2473	14563
167	0038	0202	31574		2525	14543
167	0065	0064	32652		2620	14500
167	0090	0093	33099		2655	14524
167	0115	0172	33449		2677	14568
167	0190	0322	34013		2710	14653
135	0250	0427	34429		2733	14713
135	0333	0435	34471		2735	14731

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0437 I	2942 I		2335	14611	0049	00002	4544
0020	0317	30523		2433	14576	0089	00008	3606
0030	0245	3121 B		2493	14556	0123	00017	3032
0050	0129 F	3211 B		2573	14519	0176	00038	2270
0075	0064 D	3287 B		2638	14505	0226	00069	1657
0100	0122 C	33250		2665	14541	0264	00103	1402
0125	0196 B	3355 B		2683	14582	0297	00141	1228
0150	0251 E	3376 D		2696	14613	0327	00182	1111
*0175	0298 C	3393 B		2706	14639	0354	00227	1024
0200	0343 B	34095		2715	14665	0378	00274	0944
0225	0389 C	3428 B		2724	14691	0401	00324	0854
0250	0427	34429		2733	14713	0422	00374	0783
0300	0437 E	3447 C		2735	14726	0461	00484	0767

C-REF-NO 006	YR 1965	DEPTH 331	WAVES 1 XX	AIR T 09.4	VIS
CONS. NO 058	MONTH 9	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-413N	DAY 28	NO.DPTH 11	WND-DIR 230	WW-CODE 02	
LON 68-308W	HR 16.8	W-COLOR	WND-FCE 05	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1026.4	CLD-AMT 2	HW 08

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
168	0015	0306	30328		2418	14568
168	0022	0289	30536		2436	14564
168	0032	0268	30903		2467	14562
168	0042	0227	31436		2513	14553
168	0051	0207	31734		2538	14549
168	0077	0114	32422		2599	14522
168	0102	0120	33245		2665	14540
168	0151	0277	33825		2699	14625
168	0202	0350	34121		2716	14669
168	0251	0408	34361		2729	14705
168	0327	0431	34451		2734	14728

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0305 B	3030 B		2416	14566	0038	00002	3768
0020	0294	30468		2430	14565	0075	00008	3631
0030	0273	30820		2460	14562	0110	00017	3348
0050	0209	31706		2535	14550	0170	00040	2630
0075	0120 B	32371		2594	14523	0229	00077	2068
0100	0117	33183		2660	14537	0274	00116	1449
0125	0187 I	3362 F		2690	14579	0306	00154	1166
0150	0273	33821		2699	14623	0335	00194	1083
0175	0318 C	3399 B		2708	14649	0361	00237	1000
0200	0348	34113		2715	14668	0385	00284	0935
0225	0380	34245		2723	14687	0408	00334	0869
0250	0407	34357		2729	14704	0429	00385	0815
0300	0428 B	34439		2733	14722	0470	00499	0781

C-REF-NO 006	YR 1965	DEPTH 216	WAVES 1 XX	AIR T 09.4	VIS
CONS. NO 059	MONTH 9	MXSAMPD 02	WAVES 2 XX	WET B	STN
LAT 48-387N	DAY 28	NO.DPTH 9	WND-DIR 230	WW-CODE 02	
LON 68-291W	HR 16.8	W-COLOR	WND-FCE 05	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1026.4	CLD-AMT 2	HW 08

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
168	0012	0350	29988		2388	14582
168	0025	0303	30390		2423	14569
168	0036	0282	30655		2446	14565
168	0049	0253	30995		2475	14559
168	0061	0200	31489		2519	14545
168	0075	0089	32363		2596	14509
168	0101	0101	33025		2648	14528
168	0156	0275	33798		2697	14625
168	0213	0361	34157		2718	14676

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0341 G	3004 F		2393	14579	0040	00002	3989
0020	0323 C	3022 C		2408	14574	0080	00008	3843
0030	0293	30513		2434	14567	0117	00018	3595
0050	0250	31028		2478	14558	0185	00045	3173
0075	0089	32363		2596	14509	0251	00085	2056
0100	0097 B	33013		2647	14526	0296	00125	1566
0125	0170 I	3344 B		2677	14569	0332	00166	1290
0150	0253 E	33745		2695	14613	0363	00209	1125
0175	0271 I	3403 E		2716	14629	0389	00252	0925
0200	0329 I	3415 B		2720	14660	0412	00296	0893

C-REF-NO 006	YR 1965	DEPTH	59	WAVES 1	XX	AIR T 09.4	VIS
CONS. NO 060	MONTH 9	MXSAMPD	01	WAVES 2	XX	WET B	STN
LAT 48-369N	DAY 28	NO.DPTH	4	WND-DIR	230	WW-CODE 02	
LON 68-273W	HR 16.8	W-COLOR		WND-FCE	05	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP		BARO	1026.4	CLD-AMT 2	HW 08

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
168	0011	0404	29546		2348	14599
168	0025	0366	29821		2373	14589
168	0040	0276	30458		2431	14561
168	0056	0226	31008		2478	14549

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0404	29538		2347	14599	0044	00002	4424
0020	0385	29687		2361	14594	0088	00009	4295
0030	0337 D	3002 B		2391	14579	0130	00020	4003
0050	0251 E	3076 C		2457	14555	0204	00049	3380

C-REF-NO 006	YR 1965	DEPTH	20	WAVES 1	XX	AIR T	09.4	VIS	
CONS. NO 061	MONTH 9	MXSAMPD	00	WAVES 2	XX	WET B		STN	
LAT 48-349N	DAY 28	NO.DPTH	2	WND-DIR	230	WW-CODE	02		
LON 68-258W	HR 16.8	W-COLOR		WND-FCE	05	CLD-TPE			
MARSD SQ 151	C/I 1810	W-TRNSP		BARO	1026.4	CLD-AMT	2	HW	08

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
168	0012	0398	29422		2338	14595
168	0017	0393	29557		2350	14595

C-REF-NO 006	YR 1965	DEPTH	61	WAVES 1	XX	AIR T	07.2	VIS	
CONS. NO 062	MONTH 9	MXSAMPD	01	WAVES 2	XX	WET B		STN	
LAT 48-529N	DAY 29	NO.DPTH	5	WND-DIR	290	WW-CODE	25		
LON 68-394W	HR 16.4	W-COLOR		WND-FCE	03	CLD-TPE			
MARSD SQ 151	C/I 1810	W-TRNSP		BARO	1012.5	CLD-AMT	9	HW	07

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
164	0014	0211	31558		2523	14543
164	0020	0132	32019		2566	14515
164	0029	0086	32250		2587	14499
164	0040	0035	32536		2612	14481
164	0058	0032	32793		2633	14486

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0199 I	3164 I		2531	14538	0027	00001	2676
0020	0132	32019		2566	14515	0052	00005	2343
0030	0080	32278		2589	14497	0075	00011	2116
0050	0028 C	32689		2625	14482	0114	00027	1776

C-REF-NO 006	YR 1965	DEPTH 197	WAVES 1	XX	AIR T 07.2	VIS
CONS. NO 063	MONTH 9	MXSAMPD 00	WAVES 2	XX	WET B	STN
LAT 48-504N	DAY 29	NO.DPTH 3	WND-DIR 290	WW-CODE 25		
LON 68-375W	HR 16.3	W-COLOR	WND-FCE 03	CLD-TPE		
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1012.5	CLD-AMT 9	HW 07	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
163	0008	0392	29693		2360	14595
163	0018	0307	30312		2417	14569
163	0030	0227	31397		2509	14550

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0378 C	2978 B		2369	14591	0043	00002	4220
0020	0314 I	3038 F		2422	14573	0083	00008	3710
0030	0227	31397		2509	14550	0116	00016	2877

C-REF-NO 006	YR 1965	DEPTH 320	WAVES 1 XX	AIR T 06.9	VIS
CONS. NO 064	MONTH 9	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-476N	DAY 29	NO.DPTH 13	WND-DIR 290	WW-CODE 25	
LON 68-370W	HR 16.7	W-COLOR	WND-FCE 03	CLD-TPE	
MAKSD SQ 151	C/I 1810	W-TRNSP	BARO 1012.5	CLD-AMT 9	HW 07

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
167	0000	050 B	28890		2287	14629
167	0010	0475	28892		2289	14620
167	0020	0318	30229		2409	14573
167	0030	0314	30413		2424	14575
167	0040	0244	31204		2493	14557
167	0050	0207	31514		2520	14546
167	0075	0127	33232		2663	14538
170	0100	0200	33535		2682	14579
170	0125	0252	33723		2693	14608
170	0150	0300	33928		2705	14636
170	0200	0355	34128		2716	14671
170	0250	0408				
170	0310	0430	34438		2733	14725

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0500 B	28890		2287	14629	0000	00000	5001
0010	0475	28892		2289	14620	0050	00003	4976
0020	0318	30229		2409	14573	0094	00009	3830
0030	0314	30413		2424	14575	0132	00019	3688
0050	0207	31514		2520	14546	0197	00044	2775
0075	0127	33232		2663	14538	0250	00076	1418
0100	0200	33535		2682	14579	0283	00106	1239
0125	0252	33723		2693	14608	0313	00140	1139
0150	0300	33928		2705	14636	0341	00178	1026
0175	0331 B	3405 B		2712	14655	0366	00220	0966
0200	0355	34128		2716	14671	0390	00266	0931
0225	0384	3428 E		2726	14689	0412	00315	0844
0250	0408	3436 D		2729	14704	0433	00366	0814
0300	0427	34435		2733	14722	0473	00479	0783

C-REF-NO 006	YR 1965	DEPTH 337	WAVES 1	XX	AIR T 07.2	VIS
CONS. NO 065	MONTH 9	MXSAMPD 03	WAVES 2	XX	WET B	STN
LAT 48-449N	DAY 29	NO. OPTH 11	WND-DIR 290	WW-CODE 25		
LON 68-335W	HR 16.4	W-COLOR	WND-FCE 03	CLD-TPE		
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1012.5	CLD-AMT 9	HW 07	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
164	0004	0522	28512		2255	14634
164	0025	0265	30853		2463	14559
164	0037	0213	31529		2521	14547
164	0048	0182	31816		2546	14539
164	0074	0044	32813		2634	14495
164	0099	0143	33306		2668	14550
164	0124	0202	33549		2683	14584
164	0150	0262	33813		2699	14618
164	0199	0341	34072		2713	14664
164	0250	0424	34413		2732	14712
164	0333	0435	34469		2735	14731

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
0010	0436 D	29312		2326	14609	0050	00002	4623
0020	0321 G	3040 B		2423	14576	0092	00009	3703
0030	0238 B	31187		2492	14552	0126	00017	3044
0050	0169 D	3189 B		2553	14534	0181	00039	2461
0075	0046 B	32840		2636	14496	0233	00071	1669
0100	0146	33318		2669	14552	0271	00105	1365
0125	0204	33560		2684	14585	0304	00142	1224
0150	0262	33813		2699	14618	0333	00183	1080
0175	0305 B	3396 B		2707	14643	0359	00227	1008
0200	0343	34079		2713	14665	0384	00274	0955
0225	0387 C	3426 B		2723	14690	0407	00324	0868
0250	0424	34413		2732	14712	0428	00375	0791
0300	0436 E	3445 C		2734	14726	0467	00487	0779

C-REF-NO 006	YR 1965	DEPTH 333	WAVES 1 XX	AIR T 07.2	VIS
CONS. NO 066	MONTH 9	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-413N	DAY 29	NO.DPTH 11	WND-DIR 290	WW-CODE 25	
LON 68-308W	HR 16.4	W-COLOR	WND-FCE 03	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1012.5	CLD-AMT 9	HW 07

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
164	0017	0300	30332		2419	14566
164	0024	0285	30533		2436	14563
164	0033	0247	31155		2489	14556
164	0043	0219	31630		2529	14552
164	0053	0169	31896		2553	14535
164	0078	0068	32582		2614	14503
164	0102	0123	33255		2665	14541
164	0154	0287	33874		2702	14630
164	0203	0366	34177		2719	14677
164	0253	0411	34366		2729	14706
164	0329	0432	34484		2736	14729

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0308	3019 C		2407	14566	0038	00002	3852
0020	0295	30396		2424	14565	0076	00008	3686
0030	0260	3094 C		2470	14558	0111	00017	3251
0050	0185	31827		2547	14541	0169	00040	2522
0075	0075 B	32498		2607	14505	0225	00075	1945
0100	0115 B	33203		2661	14537	0268	00112	1432
0125	0197 F	3362 D		2689	14583	0301	00149	1174
0150	0275 B	3385 B		2701	14624	0329	00189	1062
0175	0327 B	34028		2711	14653	0354	00232	0978
0200	0363	34164		2718	14674	0378	00278	0911
0225	0390	34273		2724	14691	0401	00326	0858
0250	0409	34358		2729	14705	0422	00378	0817
0300	0433	34470		2735	14725	0462	00490	0764

C-REF-NO 006	YR 1965	DEPTH 216	WAVES 1	XX	AIR T 07.2	VIS
CONS. NO 067	MONTH 9	MXSAMPD 02	WAVES 2	XX	WET B	STN
LAT 48-387N	DAY 29	NO.DPTH 9	WND-DIR 290	WW-CODE 25		
LON 68-291W	HR 16.4	W-COLOR	WND-FCE 03	CLD-TPE		
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1012.5	CLD-AMT 9	HW 07	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
164	0010	0364	29920		2381	14587
164	0024	0292	30466		2430	14565
164	0036	0268	30698		2451	14560
164	0049	0238	30851		2465	14551
164	0060	0180	31714		2538	14539
164	0075	0103	32445		2601	14517
164	0101	0132	33272		2666	14545
164	0150	0270	33823		2699	14622
164	0213	0342	34078		2713	14667

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0364	29920		2381	14587	0041	00002	4101
0020	0315 E	3029 D		2415	14572	0081	00008	3780
0030	0278 B	30601		2442	14562	0117	00017	3518
0050	0233	3092 B		2471	14550	0185	00045	3243
0075	0103	32445		2601	14517	0251	00085	2001
0100	0129	33249		2664	14543	0294	00123	1406
0125	0197 H	3364 E		2691	14583	0327	00160	1156
0150	0270	33823		2699	14622	0355	00199	1079
0175	0281 I	3416 I		2726	14635	0379	00239	0833
0200	0321 G	3415 E		2721	14657	0400	00281	0880

C-REF-NO 006	YR 1965	DEPTH 60	WAVES 1 XX	AIR T 07.2	VIS
CONS. NO 068	MONTH 9	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 48-369N	DAY 29	NO.DPTH 4	WND-DIR 290	WW-CODE 25	
LON 68-273W	HR 16.4	W-COLOR	WND-FCE 03	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1012.5	CLD-AMT 9	HW 07

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
164	0011	0361	29999		2387	14587
164	0025	0312	30294		2415	14572
164	0039	0272	30579		2441	14560
164	0056	0174	31705		2538	14535

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0353 F	3004 D		2391	14583	0040	00002	4002
0020	0332 C	3017 B		2404	14578	0080	00008	3886
0030	0299 B	3036 C		2422	14568	0118	00018	3714
0050	0208 C	3130 E		2503	14544	0185	00044	2941

C-REF-NO 006	YR 1965	DEPTH	20	WAVES 1	XX	AIR T	07.2	VIS	
CONS. NO 069	MONTH 9	MXSAMPD	00	WAVES 2	XX	WET B		STN	
LAT 48-349N	DAY 29	NO.DPTH	2	WND-DIR	290	WW-CODE	25		
LON 68-258W	HR 16.4	W-COLOR		WND-FCE	03	CLD-TPE			
MARSD SQ 151	C/I 1810	W-TRNSP		BARO	1012.5	CLD-AMT	9	HW	07

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
164	0012	0405	29417		2337	14598
164	0017	0384	29598		2354	14592

C-REF-NO 006	YR 1965	DEPTH	59	WAVES 1	XX	AIR T 11.1	VIS
CONS. NO 070	MONTH 9	MXSAMPD	01	WAVES 2	XX	WET B	STN
LAT 48-527N	DAY 30	NO.DPTH	5	WND-DIR	180	WW-CODE 02	
LON 68-400W	HR 16.0	W-COLOR		WND-FCE	02	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP		BARO 1026.4		CLD-AMT 2	HW 06

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
160	0012	0335	30446		2425	14581
160	0018	0328	30518		2432	14580
160	0027	0205	31501		2519	14541
160	0038	0076	32313		2592	14497
160	0056	0021	32572		2616	14478

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0355 I	3028 I		2411	14588	0038	00002	3818
0020	0306 D	3070 E		2448	14574	0074	00007	3461
0030	0165 B	31768		2543	14528	0104	00015	2554
0050	0027 D	32621		2620	14480	0149	00032	1827

C-REF-NO 006	YR 1965	DEPTH 191	WAVES 1 XX	AIR T 11.1	VIS
CONS. NO 071	MONTH 9	MXSAMPD 02	WAVES 2 XX	WET B	STN
LAT 48-504N	DAY 30	NO.DPTH 9	WND-DIR 180	WW-CODE 02	
LON 68-378W	HR 16.0	W-COLOR	WND-FCE 02	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1026.4	CLD-AMT 2	HW 06

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
160	0009	0435	29307		2326	14609
160	0020	0245	31184		2491	14554
160	0032	0182	31734		2539	14535
160	0044	0120	32060		2570	14514
160	0070	0066	32836		2635	14505
160	0096	0120	33300		2669	14540
160	0121	0181	33525		2683	14574
160	0146	0244	33725		2694	14608
160	0188	0347	34099		2714	14665

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0420 E	2946 F		2340	14604	0046	00002	4495
0020	0245	31184		2491	14554	0084	00008	3052
0030	0187 D	3170 D		2537	14537	0112	00015	2617
0050	0098	3225 B		2586	14508	0160	00034	2148
0075	0072 C	32946		2643	14510	0207	00063	1602
0100	0129	33344		2672	14545	0244	00096	1335
0125	0191	33557		2685	14579	0276	00133	1216
0150	0253	33769		2697	14614	0306	00174	1106
0175	0315	33986		2709	14647	0332	00218	0998

C-REF-NO 006	YR 1965	DEPTH 320	WAVES 1 XX	AIR T 11.1	VIS
CONS. NO 072	MONTH 9	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-484N	DAY 30	NO.DPTH 13	WND-DIR 180	WW-CODE 02	
LON 68-361W	HR 15.9	W-COLOR	WND-FCE 02	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1026.4	CLD-AMT 2	HW 06

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
159	0000	049 B	28978		2295	14626
159	0010	0460	29129		2310	14617
159	0020	0297	30672		2446	14569
159	0030	0233	31278		2499	14551
159	0040	0158	31874		2552	14528
159	0050	0115	32159		2578	14514
159	0075	0082	32828		2633	14512
164	0100	0115	33214		2662	14537
164	0124	0218	33590		2685	14592
164	0150	0289	33857		2701	14630
164	0200	0362	34138		2716	14674
164	0250	0419	34392		2730	14710
164	0310	0431	34458		2734	14725

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0490 B	28978		2295	14626	0000	00000	4925
0010	0460	29129		2310	14617	0049	00002	4783
0020	0297	30672		2446	14569	0090	00008	3478
0030	0233	31278		2499	14551	0123	00017	2972
0050	0115	32159		2578	14514	0175	00037	2226
0075	0082	32828		2633	14512	0224	00068	1698
0100	0115	33214		2662	14537	0264	00103	1424
0125	0221	33602		2686	14593	0297	00141	1205
0150	0289	33857		2701	14630	0325	00181	1070
0175	0332 C	3402 B		2710	14655	0351	00224	0989
0200	0362	34138		2716	14674	0376	00271	0930
0225	0394	34278		2724	14693	0398	00320	0859
0250	0419	34392		2730	14709	0419	00371	0802
0300	0431	34453		2734	14724	0459	00483	0774

C-REF-NO 006	YR 1965	DEPTH 337	WAVES 1 XX	AIR T 11.1	VIS
CONS. NO 073	MONTH 9	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-453N	DAY 30	NO.DPTH 11	WND-DIR 180	WW-CODE 02	
LON 68-335W	HR 16.0	W-COLOR	WND-FCE 02	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1026.4	CLD-AMT 2	HW 06

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
160	0016	0275	30539		2437	14557
160	0025	0246	30943		2472	14552
160	0038	0212	31585		2525	14547
160	0050	0160	32121		2572	14534
160	0076	0048	32760		2630	14496
160	0102	0139	33308		2668	14549
160	0126	0215	33600		2686	14591
160	0152	0254	33750		2695	14614
160	0202	0350	34107		2715	14669
160	0252	0425	34418		2732	14713
160	0335	0435	34462		2734	14731

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0273 D	3052 D		2436	14555	0036	00002	3578
0020	0263	3070 B		2451	14555	0071	00007	3433
0030	0234 B	31190		2492	14550	0104	00015	3039
0050	0160	32121		2572	14534	0157	00037	2283
0075	0050 B	32743		2628	14497	0208	00068	1745
0100	0129 C	33272		2666	14544	0247	00103	1389
0125	0212	33591		2686	14589	0280	00141	1207
0150	0252	33741		2695	14613	0309	00182	1126
0175	0298 B	33911		2704	14639	0337	00227	1038
0200	0346	34092		2714	14666	0362	00275	0949
0225	0389	34266		2724	14691	0385	00325	0863
0250	0423	34408		2731	14711	0405	00376	0794
0300	0441 C	3448 B		2735	14728	0445	00487	0768

C-REF-NO 006	YR 1965	DEPTH 333	WAVES 1 XX	AIR T 11.1	VIS
CONS. NO 074	MONTH 9	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-413N	DAY 30	NO.DPTH 11	WND-DIR 180	WW-CODE 02	
LON 68-308W	HR 16.0	W-COLOR	WND-FCE 02	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1026.4	CLD-AMT 2	HW 06

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
160	0018	0280	30584		2441	14560
160	0026	0275	30648		2446	14560
160	0034	0244	30862		2465	14551
160	0044	0211	31458		2515	14546
160	0055	0173	31862		2550	14537
160	0079	0062	32908		2641	14505
160	0104	0160	33427		2676	14560
160	0154	0288	33903		2704	14631
160	0204	0348	34121		2716	14668
160	0254	0398	34302		2726	14700
160	0330	0432	34449		2734	14729

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0290 C	3052 B		2435	14563	0036	00002	3589
0020	0280	30591		2441	14561	0072	00007	3527
0030	0261	30731		2454	14556	0106	00016	3407
0050	0191	3169 B		2536	14542	0167	00040	2629
0075	0075 F	3274 B		2627	14508	0222	00074	1757
0100	0138 E	33370		2673	14549	0261	00108	1321
0125	0223	3369 C		2693	14595	0292	00144	1142
0150	0281	33883		2703	14627	0320	00183	1043
0175	0318 B	34013		2710	14649	0345	00225	0981
0200	0345	34109		2715	14666	0369	00271	0935
0225	0371	34203		2720	14683	0392	00322	0892
0250	0395	34289		2725	14698	0414	00375	0853
0300	0422	34403		2731	14719	0456	00493	0802

C-REF-NO 006	YR 1965	DEPTH 216	WAVES 1	XX	AIR T 11.1	VIS
CONS. NO 075	MONTH 9	MXSAMPD 02	WAVES 2	XX	WET B	STN
LAT 48-387N	DAY 30	NO.DPTH 9	WND-DIR 180	WW-CODE 02		
LON 68-291W	HR 15.9	W-COLOR	WND-FCE 02	CLD-TPE		
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1026.4	CLD-AMT 2	HW 06	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
159	0011	0341	30121		2399	14580
159	0025	0316	30267		2413	14573
159	0037	0260	30671		2449	14556
159	0048	0211	31405		2511	14546
159	0061	0127	32251		2584	14523
159	0074	0028	32795		2634	14487
159	0101	0134	33288		2667	14546
159	0150	0299	33943		2707	14636
159	0213	0356	34145		2717	14673

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0344	3009 B		2396	14580	0040	00002	3955
0020	0329	30185		2405	14577	0079	00008	3872
0030	0294 B	30395		2424	14566	0117	00018	3687
0050	0199	31546		2523	14543	0182	00043	2746
0075	0028 C	32822		2636	14488	0237	00077	1674
0100	0126 C	33278		2667	14543	0276	00111	1383
0125	0224 C	33655		2690	14595	0308	00148	1167
0150	0299	33943		2707	14636	0335	00186	1014
0175	0330 G	3409 B		2715	14655	0360	00227	0936
0200	0352 C	34151		2718	14670	0383	00272	0911

C-REF-NO 006	YR 1965	DEPTH 60	WAVES 1 XX	AIR T 11.1	VIS
CONS. NO 076	MONTH 9	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 48-369N	DAY 30	NO.DPTH 4	WND-DIR 180	WW-CODE 02	
LON 68-273W	HR 16.0	W-COLOR	WND-FCE 02	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1026.4	CLD-AMT 2	HW 06

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
160	0012	0367	29937		2382	14588
160	0026	0355	30054		2392	14587
160	0042	0247	30832		2463	14553
160	0057	0129	32525		2606	14527

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0376 E	2987 E		2376	14591	0041	00002	4150
0020	0366 B	2996 B		2384	14590	0083	00008	4070
0030	0334 C	3017 B		2403	14580	0123	00019	3890
0050	0196 E	3167 C		2533	14544	0188	00044	2652

C-REF-NO 006	YR 1965	DEPTH 19	WAVES 1 XX	AIR T 11.1	VIS
CONS. NO 077	MONTH 9	MXSAMPD 00	WAVES 2 XX	WET B	STN
LAT 48-349N	DAY 30	NO.DPTH 2	WND-DIR 180	WW-CODE 02	
LON 68-258W	HR 16.0	W-COLOR	WND-FCE 02	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1026.4	CLD-AMT 2	HW 06

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
160	0011	0381	29746		2366	14592
160	0016	0363	29924		2381	14587

C-REF-NO 006	YR 1965	DEPTH	62	WAVES 1	XX	AIR T 05.5	VIS
CONS. NO 078	MONTH 10	MXSAMPD	01	WAVES 2	XX	WET B	STN
LAT 48-529N	DAY 01	NO.DPTH	5	WND-DIR	180	WW-CODE 61	
LON 68-394W	HR 15.5	W-COLOR		WND-FCE	04	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP		BARO	1003.0	CLD-AMT 9	HW 04

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
155	0015	0348	30165		2402	14584
155	0021	0212	31397		2510	14542
155	0031	0155	31901		2555	14525
155	0041	0029	32509		2611	14478
155	0060	0021	32609		2619	14479

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0322 I	3039 I		2422	14575	0038	00002	3715
0020	0235 D	3119 D		2492	14549	0072	00007	3039
0030	0157 D	3189 D		2554	14526	0100	00014	2455
0050	0034 I	3258 H		2616	14483	0143	00031	1860

C-REF-NO 006	YR 1965	DEPTH 197	WAVES 1	XX	AIR T 05.5	VIS
CONS. NO 079	MONTH 10	MXSAMPD 00	WAVES 2	XX	WET B	STN
LAT 48-504N	DAY 01	NO.DPTH 3	WND-DIR 180	WW-CODE 61		
LON 68-375W	HR 15.5	W-COLOR	WND-FCE 04	CLD-TPE		
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1003.0	CLD-AMT 9	HW 04	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
155	0016	0271	30794		2458	14559
155	0025	0222	31297		2502	14546
155	0038	0157	31895		2554	14527

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0271 E	3080 G		2459	14558	0034	00002	3359
0020	0251 B	3100 B		2476	14554	0067	00007	3196
0030	0207 E	3142 F		2513	14542	0097	00014	2843

C-REF-NO 006	YR 1965	DEPTH	320	WAVES 1	XX	AIR T	05.5	VIS	
CONS. NO 080	MONTH 10	MXSAMPD	03	WAVES 2	XX	WET B		STN	
LAT 48-484N	DAY 01	NO.DPTH	13	WND-DIR	180	WW-CODE	61		
LON 68-361W	HR 15.4	W-COLOR		WND-FCE	04	CLD-TPE			
MARSD SQ 151	C/I 1810	W-TRNSP		BARO	1003.0	CLD-AMT	9	HW	04

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
154	0000	046 B	29379		2329	14619
154	0010	0350	30056		2393	14582
154	0020	0261	30737		2454	14555
154	0030	0226	31293		2501	14548
154	0040	0216	31639		2530	14550
154	0049	0164	31919		2555	14533
154	0075	0006	32674		2625	14476
157	0099	0140	33314		2669	14549
157	0124	0191	33490		2679	14578
157	0149	0257	33750		2695	14615
157	0198	0357	34138		2717	14671
157	0248	0419	34394		2731	14709
157	0308	0431	34434		2733	14725

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0460 B	29379		2329	14619	0000	00000	4594
0010	0350	30056		2393	14582	0043	00002	3987
0020	0261	30737		2454	14555	0080	00008	3402
0030	0226	31293		2501	14548	0112	00016	2956
0050	0155 B	31949		2559	14529	0166	00037	2410
0075	0006	32674		2625	14476	0219	00070	1776
0100	0143	33325		2669	14551	0258	00105	1358
0125	0194	33500		2680	14580	0291	00143	1262
0150	0259	33759		2695	14616	0321	00185	1119
0175	0315	33974		2708	14647	0348	00229	1006
0200	0360	34152		2717	14673	0372	00276	0918
0225	0396	34298		2725	14694	0395	00324	0846
0250	0419	34388		2730	14710	0415	00375	0805
0300	0433	34442		2733	14724	0455	00488	0784

C-REF-NO 006	YR 1965	DEPTH 337	WAVES 1 XX	AIR T 05.5	VIS
CONS. NO 081	MONTH 10	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-449N	DAY 01	NO.DPTH 11	WND-DIR 180	WW-CODE 61	
LON 68-335W	HR 15.6	W-COLOR	WND-FCE 04	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1003.0	CLD-AMT 9	HW 04

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
156	0016	0301	30235		2411	14565
156	0026	0264	30726		2453	14557
156	0038	0237	31203		2493	14553
156	0050	0171	31867		2551	14535
156	0077	0048	32755		2629	14496
156	0102	0151	33361		2672	14555
156	0127	0222	33621		2687	14594
156	0152	0261	33767		2696	14617
156	0202	0376	34200		2720	14681
156	0252	0419	34392		2730	14710
156	0335	0434	34443		2733	14730

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0298 E	3025 G		2413	14562	0038	00002	3798
0020	0287 B	3041 B		2427	14562	0076	00008	3667
0030	0256 B	3088 B		2466	14556	0111	00017	3289
0050	0171	31867		2551	14535	0169	00039	2483
0075	0052 C	32708		2625	14497	0222	00073	1773
0100	0140 C	33323		2669	14549	0262	00107	1357
0125	0217	33609		2687	14592	0294	00144	1198
0150	0258	33757		2695	14616	0323	00185	1120
0175	0315 E	3397 B		2707	14647	0350	00230	1011
0200	0372	34183		2719	14678	0374	00276	0905
0225	0402 B	34311		2726	14697	0396	00324	0842
0250	0418	34388		2730	14709	0417	00375	0804
0300	0447 D	3449 B		2735	14731	0456	00486	0764

C-REF-NO 006	YR 1965	DEPTH 333	WAVES 1 XX	AIR T 05.5	VIS
CONS. NO 082	MONTH 10	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-413N	DAY 01	NO.DPTH 11	WND-DIR 180	WW-CODE 61	
LON 68-308W	HR 15.6	W-COLOR	WND-FCE 04	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1003.0	CLD-AMT 9	HW 04

OBSERVED

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
156	0017	0311	30175		2406	14568
156	0024	0290	30350		2421	14563
156	0034	0253	30702		2452	14553
156	0044	0215	31295		2502	14546
156	0054	0197	31553		2524	14543
156	0079	0072	32836		2635	14509
156	0104	0200	33536		2682	14580
156	0154	0301	33903		2703	14637
156	0203	0369				
156	0254	0414	34362		2729	14708
156	0330	0433	34453		2734	14729

INTERPOLATED

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0316 B	30122		2401	14568	0039	00002	3909
0020	0303	30240		2411	14566	0078	00008	3810
0030	0268	30540		2438	14557	0115	00017	3557
0050	0204 B	3146 C		2516	14544	0179	00043	2813
0075	0087 H	3262 D		2616	14512	0238	00079	1859
0100	0173 G	33455		2678	14566	0277	00113	1280
0125	0257 G	3378 G		2697	14611	0307	00148	1100
0150	0297 B	3390 B		2703	14635	0334	00186	1045
0175	0334	34031		2710	14656	0360	00228	0981
0200	0366	34161		2718	14676	0384	00274	0916
0225	0392	34268		2723	14692	0406	00323	0864
0250	0411	34351		2728	14706	0427	00375	0825
0300	0432	34442		2733	14724	0468	00489	0784

C-REF-NO 006	YR 1965	DEPTH 212	WAVES 1	XX	AIR T 05.5	VIS
CONS. NO 083	MONTH 10	MXSAMPD 02	WAVES 2	XX	WET B	STN
LAT 48-388N	DAY 01	NO.DPTH 9	WND-DIR 180	WW-CODE 61		
LON 68-286W	HR 15.6	W-COLOR	WND-FCE 04	CLD-TPE		
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1003.0	CLD-AMT 9	HW 05	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
156	0009	0349	30043		2392	14582
156	0021	0328	30185		2405	14576
156	0033	0307	30344		2419	14571
156	0044	0255	30845		2463	14557
156	0056	0106	32226		2584	14512
156	0071	0084	32841		2634	14513
156	0097	0124	33250		2665	14541
156	0146	0294	33874		2701	14632
156	0209	0364	34174		2719	14677

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0010	0348	30051		2393	14581	0040	00002	3989
0020	0330	30170		2404	14577	0080	00008	3885
0030	0314	3028 B		2414	14573	0118	00018	3785
0050	0179 I	3153 I		2523	14534	0184	00044	2744
0075	0086 B	3293 B		2642	14516	0239	00077	1620
0100	0134 B	33296		2668	14546	0276	00111	1374
0125	0220 I	33639		2689	14593	0309	00147	1176
0150	0263 I	3388 B		2705	14619	0336	00186	1028
0175	0309 I	3406 B		2715	14646	0361	00227	0939
*0200	0350 F	34156		2719	14669	0384	00272	0905

C-REF-NO 006	YR 1965	DEPTH	20	WAVES 1	XX	AIR T	05.5	VIS	
CONS. NO 084	MONTH 10	MXSAMPD	00	WAVES 2	XX	WET B		STN	
LAT 48-349N	DAY 01	NO.DPTH	2	WND-DIR	180	WW-CODE	61		
LON 68-258W	HR 15.6	W-COLOR		WND-FCE	04	CLD-TPE			
MARSD SQ 151	C/I 1810	W-TRNSP		BARO	1003.0	CLD-AMT	9	HW	05

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
156	0012	0400	29545		2348	14597
156	0017	0383	29779		2368	14594

C-REF-NO 006	YR 1965	DEPTH 335	WAVES 1 00X0	AIR T 08.8	VIS
CONS. NO 085	MONTH 10	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-454N	DAY 07	NO.DPTH 12	WND-DIR CALM	WW-CODE 00	
LON 68-329W	HR 19.3	W-COLOR	WND-FCE 00	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1011.8	CLD-AMT 0	HW 02

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
193	0000	036 B	28690		2284	14567
193	0012	0333	29029		2313	14562
193	0024	0336	29922		2383	14577
193	0036	0269	30764		2456	14561
193	0048	0234	31419		2511	14557
193	0075	0084	32400		2599	14507
193	0100	0110	33196		2661	14534
193	0125	0246	33698		2692	14606
193	0150	0275	33812		2698	14624
193	0200	0338	34049		2711	14662
193	0250	0401	34316		2726	14701
193	0320	0435	34448		2733	14728

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0360 B	28690		2284	14567	0000	00000	5029
0010	0353 I	2904 H		2312	14570	0049	00002	4759
0020	0337 D	2960 C		2358	14572	0095	00009	4325
0030	0305 D	30358		2421	14570	0135	00020	3723
0050	0221 C	31506		2518	14552	0201	00045	2791
0075	0084	32400		2599	14507	0261	00083	2025
0100	0110	33196		2661	14534	0305	00121	1435
0125	0246	33698		2692	14605	0337	00158	1153
0150	0275	33812		2698	14624	0366	00198	1092
0175	0306	33928		2705	14643	0392	00243	1033
0200	0338	34049		2711	14662	0418	00291	0974
0225	0372 B	34190		2719	14683	0441	00343	0902
0250	0401	34316		2726	14701	0463	00396	0840
0300	0427 B	34413		2731	14721	0505	00513	0799

C-REF-NO 006	YR 1965	DEPTH 335	WAVES 1 00X0	AIR T 08.8	VIS
CONS. NO 086	MONTH 10	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-418N	DAY 07	NO.DPTH 12	WND-DIR CALM	WW-CODE 00	
LUN 68-304W	HR 20.3	W-COLOR	WND-FCE 00	CLO-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1011.8	CLO-AMT 0	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
203	0000	038 B	28927		2301	14579
203	0012	0336	29387		2341	14568
203	0024	0285	30629		2444	14564
203	0035	0210	31482		2517	14545
203	0047	0161	32031		2565	14532
203	0074	0045	32627		2619	14493
203	0098	0109	33202		2662	14534
203	0123	0187	33488		2679	14576
203	0148	0240	33696		2692	14607
203	0198	0336	34045		2711	14661
203	0250	0396	34293		2725	14698
203	0319	0432	34446		2733	14727

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0380 B	28927		2301	14579	0000	00000	4866
0010	0348 C	2945 I		2345	14573	0047	00002	4448
0020	0304	3019 E		2407	14566	0088	00009	3849
0030	0244 B	31132		2487	14554	0123	00017	3090
0050	0143 D	3212 B		2573	14526	0177	00039	2275
0075	0046	32653		2621	14494	0229	00071	1811
0100	0115	33232		2664	14537	0269	00106	1411
0125	0192	33506		2680	14579	0303	00145	1255
0150	0244	33712		2693	14609	0333	00187	1142
0175	0295	33897		2703	14638	0361	00233	1047
0200	0339	34057		2712	14663	0386	00282	0969
0225	0371	34188		2719	14683	0410	00333	0903
0250	0396	34293		2725	14698	0432	00387	0852
0300	0429	34424		2732	14722	0473	00504	0793

C-REF-NO 006	YR 1965	DEPTH 335	WAVES 1 00X0	AIR T 07.7	VIS
CONS. NO 087	MONTH 10	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-454N	DAY 07	NO.DPTH 12	WND-DIR CALM	WW-CODE 00	
LDN 68-329W	HR 21.7	W-COLOR	WND-FCE 00	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1011.8	CLD-AMT 0	HW 04

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
217	0000	034 B	28660		2283	14558
217	0012	0338	29106		2319	14565
217	0024	0332	29877		2380	14575
217	0036	0259	30905		2468	14559
217	0048	0232	31364		2506	14555
217	0075	0048	32646		2621	14495
217	0100	0144	33337		2670	14551
217	0125	0223	33608		2686	14594
217	0150	0273	33812		2698	14623
217	0199	0335	34042		2711	14661
217	0248	0401	34316		2726	14701
217	0318	0435	34461		2734	14728

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0340 B	28660		2283	14558	0000	00000	5037
0010	0350 F	29021		2311	14568	0049	00002	4770
0020	0338 B	29588		2357	14573	0095	00009	4332
0030	0297 E	3041 D		2426	14567	0135	00019	3677
0050	0216 E	3146 B		2515	14550	0200	00045	2820
0075	0048	32646		2621	14495	0259	00081	1818
0100	0144	33337		2670	14551	0299	00116	1350
0125	0223	33608		2686	14594	0331	00153	1202
0150	0273	33812		2698	14623	0360	00194	1090
0175	0307 B	3394 B		2706	14644	0386	00238	1025
0200	0337	34048		2711	14662	0412	00286	0973
0225	0372 B	34193		2720	14683	0435	00338	0900
0250	0395 E	3428 C		2724	14698	0457	00392	0857
0300	0428 B	34426		2732	14722	0499	00509	0791

C-REF-NO 006	YR 1965	DEPTH 335	WAVES 1 00X0	AIR T 06.6	VIS
CONS. NO 088	MONTH 10	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-418N	DAY 07	NO.DPTH 12	WND-DIR CALM	WW-CODE 00	
LON 68-304W	HR 22.7	W-COLOR	WND-FCE 00	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1012.5	CLD-AMT 0	05

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
227	0000	036 B	29034		2311	14571
227	0012	0332	29188		2326	14563
227	0024	0310	30533		2434	14574
227	0036	0237	31158		2490	14552
227	0048	0175	31822		2547	14536
227	0075	0037	32658		2622	14490
227	0100	0103	33179		2660	14531
227	0125	0188	33485		2679	14577
227	0150	0227	33649		2689	14601
227	0199	0313	33962		2707	14650
227	0249	0393	34294		2725	14697
227	0320	0433	34440		2733	14728

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0360 B	29034		2311	14571	0000	00000	4769
0010	0346 F	2941 I		2342	14572	0046	00002	4472
0020	0320 B	3006 I		2396	14571	0089	00009	3961
0030	0276 C	3089 D		2465	14565	0125	00018	3299
0050	0161 C	31904		2555	14531	0183	00041	2448
0075	0037	32658		2622	14490	0237	00074	1803
0100	0103	33179		2660	14531	0277	00110	1443
0125	0188	33485		2679	14577	0312	00149	1269
0150	0227	33649		2689	14601	0342	00192	1175
0175	0271	33809		2698	14626	0371	00240	1092
0200	0315	33970		2707	14651	0397	00291	1012
0225	0358 B	34146		2717	14676	0422	00344	0922
0250	0387 E	3426 D		2723	14694	0444	00399	0870
0300	0425 B	3441 B		2731	14721	0487	00518	0802

C-REF-NO 006 YR 1965 DEPTH 335 WAVES 1 00X0 AIR T 05.5 VIS
 CONS. NO 089 MONTH 10 MXSAMPD 03 WAVES 2 XX WET B STN
 LAT 48-454N DAY 07 NO.DPTH 12 WND-DIR CALM WW-CODE 00
 LON 68-329W HR 23.7 W-COLOR WND-FCE 00 CLD-TPE
 MARSD SQ 151 C/I 1810 W-TRNSP BARO 1013.2 CLD-AMT 0 HW 06

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
237	0000	035 B	28650		2281	14562
237	0012	0330	29037		2314	14560
237	0024	0337	29778		2372	14575
237	0036	0281	30666		2447	14565
237	0048	0243	31157		2489	14557
237	0075	0065	32440		2603	14499
237	0100	0116	33225		2663	14537
237	0125	0198	33531		2682	14582
237	0150	0248	33710		2692	14611
237	0199	0333	34031		2710	14660
237	0249	0398	34312		2726	14699
237	0319	0433	34454		2734	14728

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0350 B	28650		2281	14562	0000	00000	5052
0010	0347 I	2898 C		2308	14567	0049	00002	4797
0020	0337 C	29503		2350	14571	0096	00009	4395
0030	0312 C	3024 C		2411	14572	0137	00020	3819
0050	0228 D	31256		2498	14552	0205	00047	2985
0075	0065	32440		2603	14499	0268	00085	1984
0100	0116	33225		2663	14537	0311	00123	1416
0125	0198	33531		2682	14582	0344	00161	1241
0150	0248	33710		2692	14611	0374	00203	1146
0175	0294	33879		2702	14637	0402	00250	1059
0200	0335	34038		2711	14661	0428	00299	0979
0225	0370	34189		2719	14682	0451	00351	0901
0250	0397 B	3430 B		2725	14699	0473	00404	0851
0300	0428	34430		2733	14722	0515	00521	0788

C-REF-NO 006	YR 1965	DEPTH 335	WAVES 1 00X0	AIR T 03.8	VIS
CONS. NO 090	MONTH 10	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-418N	DAY 08	NO.DPTH 12	WNO-DIR CALM	WW-CODE 00	
LON 68-304W	HR 00.8	W-COLOR	WND-FCE 00	CLO-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1013.8	CLO-AMT 0	HW 07

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
008	0000	037 B	28882		2298	14574
008	0012	0329	29040		2314	14560
008	0024	0310	29961		2389	14566
008	0036	0240	31122		2487	14553
008	0048	0168	31832		2548	14533
008	0075	0024	32653		2622	14484
008	0100	0090	33120		2656	14524
008	0125	0134	33286		2667	14550
008	0150	0211	33562		2683	14592
008	0199	0304	33914		2704	14646
008	0250	0387	34265		2724	14694
008	0320	0433	34477		2736	14728

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0370 B	28882		2298	14574	0000	00000	4892
0010	0347 G	2905 G		2313	14568	0048	00002	4745
0020	0318 C	2960 C		2359	14564	0094	00009	4308
0030	0278 B	3056 D		2438	14561	0133	00019	3553
0050	0153 B	31917		2556	14528	0194	00043	2433
0075	0024	32653		2622	14484	0247	00076	1800
0100	0090	33120		2656	14524	0288	00112	1480
0125	0134	33286		2667	14550	0324	00154	1382
0150	0211	33562		2683	14592	0357	00200	1229
0175	0264 C	3376 B		2695	14622	0387	00249	1125
0200	0306	33922		2704	14647	0414	00302	1039
0225	0350	34104		2715	14672	0439	00356	0945
0250	0387	34265		2724	14694	0462	00411	0864
0300	0424 B	34427		2733	14720	0503	00528	0786

C-REF-NO 006 YR 1965 DEPTH 335 WAVES 1 XX AIR T 03.8 VIS
 CONS. NO 091 MONTH 10 MXSAMPD 01 WAVES 2 XX WET B STN
 LAT 48-454N DAY 08 NO.DPTH 8 WND-DIR 110 WW-CODE 02
 LON 68-329W HR 01.8 W-COLOR WND-FCE 01 CLD-TPE
 MARSD SQ 151 C/I 1810 W-TRNSP BARO 1013.2 CLD-AMT 0 HW 08

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
018	0000	035 B	28618		2279	14561
018	0012	0304	29155		2325	14551
018	0024	0321	29787		2374	14569
018	0036	0270	30726		2453	14561
018	0048	0224	31425		2512	14552
018	0075	0057	32687		2623	14499
018	0100	0153	33352		2671	14556
018	0125	0205	33550		2683	14586

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0350 B	28618		2279	14561	0000	00000	5076
0010	0330 I	2902 C		2313	14560	0049	00002	4754
0020	0316 E	29554		2356	14562	0095	00009	4340
0030	0299 C	3025 C		2413	14566	0136	00020	3798
0050	0208 D	31536		2522	14547	0202	00046	2759
0075	0057	32687		2623	14499	0259	00081	1791
0100	0153	33352		2671	14556	0299	00115	1344
0125	0205	33550		2683	14586	0331	00153	1232

C-REF-NO 006	YR 1965	DEPTH 335	WAVES 1 XX	AIR T 03.8	VIS
CONS. NO 092	MONTH 10	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-418N	DAY 08	NO.DPTH 12	WND-DIR 110	WW-CODE 03	
LON 68-304W	HR 02.6	W-COLOR	WND-FCE 01	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1013.2	CLD-AMT 1	HW 09

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
026	0000	034 B	28579		2277	14557
026	0012	0327	28980		2309	14558
026	0024	0305	30339		2419	14569
026	0036	0240	31173		2491	14554
026	0048	0178	31754		2541	14536
026	0075	0025	32591		2617	14483
026	0100	0089	33139		2658	14524
026	0125	0144	33336		2670	14556
026	0150	0224	33638		2689	14599
026	0198	0318	33997		2709	14653
026	0248	0387	34272		2724	14694
026	0318	0432	34456		2734	14727

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0340 B	28579		2277	14557	0000	00000	5098
0010	0336 D	2910 I		2319	14563	0049	00002	4696
0020	0315 B	2986 G		2380	14566	0093	00009	4106
0030	0275 B	3081 B		2459	14563	0131	00018	3361
0050	0163 C	31832		2549	14531	0190	00042	2504
0075	0025	32591		2617	14483	0245	00076	1848
0100	0089	33139		2658	14524	0286	00113	1465
0125	0144	33336		2670	14556	0322	00153	1351
0150	0224	33638		2689	14599	0354	00198	1181
0175	0280 B	33849		2701	14630	0382	00245	1069
0200	0321	34010		2710	14655	0408	00295	0987
0225	0359	34159		2718	14677	0432	00347	0913
0250	0389	34277		2724	14695	0454	00401	0857
0300	0426	34429		2733	14721	0496	00518	0787

C-REF-NO 006	YR 1965	DEPTH 335	WAVES 1	XX	AIR T 04.4	VIS
CONS. NO 093	MONTH 10	MXSAMPD 03	WAVES 2	XX	WET B	STN
LAT 48-454N	DAY 08	NO.DPTH 12	WND-DIR 110	WW-CODE 02		
LON 68-329W	HR 03.5	W-COLOR	WND-FCE 01	CLD-TPE		
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1012.5	CLD-AMT 1	HW 10	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
035	0000	034 B	28839		2297	14560
035	0012	0328	28950		2307	14558
035	0024	0326	29968		2388	14573
035	0036	0279	30660		2447	14564
035	0048	0219	31420		2512	14550
035	0075	0064	32565		2613	14501
035	0100	0139	33305		2668	14549
035	0125	0210	33555		2683	14588
035	0150	0245	33708		2692	14609
035	0200	0325	34015		2710	14656
035	0250	0400	34318		2727	14701
035	0320	0434	34452		2734	14728

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0340 B	28839		2297	14560	0000	00000	4901
0010	0339 F	2908 I		2317	14565	0048	00002	4715
0020	0329 B	2960 F		2358	14569	0094	00009	4318
0030	0306 B	3033 B		2418	14570	0134	00019	3745
0050	0204 C	31524		2521	14545	0200	00045	2765
0075	0064	32565		2613	14501	0258	00081	1888
0100	0139	33305		2668	14549	0299	00117	1370
0125	0210	33555		2683	14588	0332	00155	1232
0150	0245	33708		2692	14609	0362	00197	1145
0175	0284	33862		2701	14633	0390	00243	1064
0200	0325	34015		2710	14656	0416	00293	0987
0225	0365 B	34178		2719	14680	0439	00345	0906
0250	0400	34318		2727	14700	0461	00398	0837
0300	0427 B	34423		2732	14722	0503	00514	0792

C-REF-NO 006	YR 1965	DEPTH	335	WAVES 1	XX	AIR T 04.4	VIS
CONS. NO 094	MONTH 10	MXSAMPD	03	WAVES 2	XX	WET B	STN
LAT 48-418N	DAY 08	NO.DPTH	12	WND-DIR	110	WW-CODE 02	
LON 68-304W	HR 04.5	W-COLOR		WND-FCE	02	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP		BARO 1012.1		CLD-AMT 1	HW 11

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
045	0000	034 B	28576		2276	14557
045	0012	0326	29304		2335	14562
045	0024	0303	30085		2399	14565
045	0036	0240	31168		2490	14554
045	0048	0166	31865		2551	14533
045	0075	0027	32649		2622	14485
045	0100	0104	33192		2661	14532
045	0125	0149	33353		2671	14558
045	0150	0200	33539		2682	14587
045	0199	0307	33929		2705	14647
045	0249	0386	34264		2724	14694
045	0319	0432	34448		2734	14727

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0340 B	28576		2276	14557	0000	00000	5100
0010	0334 C	2914 C		2321	14563	0049	00002	4671
0020	0313	29805		2376	14565	0093	00009	4148
0030	0275	3063 D		2445	14561	0132	00019	3492
0050	0151 B	3195 B		2558	14527	0191	00042	2411
0075	0027	32649		2622	14485	0244	00075	1805
0100	0104	33192		2661	14532	0285	00111	1434
0125	0149	33353		2671	14558	0320	00151	1341
0150	0200	33539		2682	14587	0352	00197	1238
0175	0256 B	33740		2694	14619	0382	00246	1132
0200	0309	33937		2705	14648	0409	00299	1031
0225	0352	34118		2715	14674	0434	00353	0938
0250	0386	3425 B		2722	14693	0457	00408	0876
0300	0426	34416		2732	14721	0499	00527	0796

C-REF-NO 006	YR 1965	DEPTH	335	WAVES 1	XX	AIR T	03.8	VIS	
CONS. NO 095	MONTH 10	MXSAMPD	03	WAVES 2	XX	WET B		STN	
LAT 48-454N	DAY 08	NO.DPTH	12	WND-DIR	110	WW-CODE	03		
LON 68-329W	HR 05.6	W-COLOR		WND-FCE	02	CLD-TPE			
MARSD SQ 151	C/I 1810	W-TRNSP		BARO	1012.1	CLD-AMT	2	HW	00

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
056	0000	032 B	28720		2289	14550
056	0012	0337	29158		2323	14565
056	0024	0312	29930		2386	14567
056	0036	0258	30966		2473	14559
056	0048	0197	31601		2528	14543
056	0075	0069	32549		2612	14503
056	0099	0117	33225		2663	14538
056	0124	0212	33590		2686	14589
056	0149	0251	33753		2696	14612
056	0198	0327				
056	0248	0395	34291		2725	14698
056	0317	0434	34460		2734	14728

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0320 B	28720		2289	14550	0000	00000	4976
0010	0335 B	29074		2316	14563	0049	00002	4719
0020	0324	29639		2362	14567	0094	00009	4282
0030	0287	3046 D		2430	14564	0134	00019	3634
0050	0184 B	31686		2536	14538	0197	00044	2629
0075	0069	32549		2612	14503	0254	00079	1903
0100	0121	33245		2664	14540	0295	00116	1404
0125	0214	33599		2686	14590	0328	00153	1203
0150	0253	33760		2696	14613	0357	00194	1113
0175	0292	33919		2705	14637	0384	00239	1027
0200	0330	34063		2713	14659	0409	00287	0956
0225	0366	34189		2720	14680	0433	00338	0898
0250	0392 C	3428 B		2724	14697	0455	00392	0859
0300	0427	34426		2732	14722	0496	00509	0790

C-REF-NO 006	YR 1965	DEPTH 335	WAVES 1 XX	AIR T 03.8	VIS
CONS. NO 096	MONTH 10	MXSAMPD 02	WAVES 2 XX	WET B	STN
LAT 48-418N	DAY 08	NO.DPTH 11	WND-DIR 130	WW-CODE 03	
LON 68-304W	HR 06.8	W-COLOR	WND-FCE 03	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1012.1	CLD-AMT 4	HW 01

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
068	0000	034 B	28791		2293	14559
068	0012	0327	29347		2339	14563
068	0023	0319	29837		2378	14568
068	0035	0243	31106		2485	14554
068	0046	0158	31876		2552	14529
068	0072	0036	32751		2630	14490
068	0097	0104	33192		2661	14531
068	0121	0174	33443		2677	14570
068	0145	0193	33515		2681	14583
068	0193	0298	33898		2703	14642
068	0242	0383	34251		2723	14691

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0340 B	28791		2293	14559	0000	00000	4937
0010	0341 G	2913 I		2320	14566	0048	00002	4681
0020	0324 B	2967 C		2365	14568	0093	00009	4257
0030	0280 B	3056 F		2439	14562	0132	00019	3552
0050	0129 B	3207 C		2570	14519	0191	00042	2304
0075	0039 C	32819		2635	14493	0241	00073	1681
0100	0114	33233		2664	14537	0280	00107	1409
0125	0178 B	33458		2678	14572	0314	00146	1282
0150	0202 B	33548		2683	14588	0346	00191	1232
0175	0255 D	3374 B		2694	14618	0376	00241	1132
0200	0294 I	3390 D		2703	14641	0403	00293	1049
0225	0345 F	3410 B		2715	14670	0428	00348	0946

C-REF-NO 006	YR 1965	DEPTH 335	WAVES 1 XX	AIR T 01.6	VIS
CONS. NO 097	MONTH 10	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-454N	DAY 08	NO.DPTH 12	WND-DIR 140	WW-CODE 03	
LON 68-329W	HR 08.0	W-COLOR	WND-FCE 04	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1011.8	CLD-AMT 9	HW 02

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
080	0000	033 B	28578		2277	14552
080	0011	0340				
080	0022	0338	29651		2362	14574
080	0033	0288	30666		2447	14568
080	0044	0216	31443		2514	14548
080	0069	0080	32395		2599	14505
080	0092	0083	33108		2656	14520
080	0114	0200	33528		2682	14581
080	0137	0249	33723		2693	14609
080	0185	0307	33923		2704	14645
080	0235	0378	34226		2722	14688
080	0305	0433	34448		2733	14725

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0330 B	28578		2277	14552	0000	00000	5091
0010	0346 D	2907 H		2315	14567	0049	00002	4727
0020	0341	2966 I		2362	14575	0094	00009	4278
0030	0305	3039 B		2423	14571	0135	00019	3702
0050	0175 C	3173 D		2540	14535	0198	00044	2588
0075	0069	32602		2616	14503	0254	00079	1862
0100	0123 G	33289		2668	14541	0295	00115	1372
0125	0229 C	33641		2688	14597	0327	00151	1182
0150	0267 B	3379 B		2697	14620	0356	00192	1105
0175	0297 B	3389 B		2702	14638	0383	00237	1054
0200	0329 B	34015		2709	14658	0409	00287	0991
0225	0364	34166		2718	14679	0433	00339	0913
0250	0386 E	3424 C		2722	14693	0455	00394	0879
0300	0429	34431		2732	14723	0497	00512	0789

C-REF-NO 006	YR 1965	DEPTH	335	WAVES 1	XX	AIR T	02.2	VIS	
CUNS. NO 098	MONTH 10	MXSAMPD	03	WAVES 2	XX	WET B		STN	
LAT 48-418N	DAY 08	NO.DPTH	12	WND-DIR	110	WW-CODE	02		
LON 68-304W	HR 09.2	W-COLOR		WND-FCE	04	CLD-TPE			
MARSD SQ 151	C/I 1810	W-TRNSP		BARO	1011.1	CLD-AMT	9	HW	04

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
092	0000	035 B	28872		2299	14565
092	0012	0325	29392		2342	14563
092	0024	0300	30362		2421	14567
092	0036	0225	31316		2503	14549
092	0048	0163	31959		2559	14532
092	0074	0034	32819		2635	14490
092	0099	0091	33135		2658	14525
092	0124	0168	33423		2676	14567
092	0148	0211	33575		2685	14592
092	0196	0319	33959		2706	14652
092	0243	0397	34295		2725	14698
092	0313	0433	34448		2733	14726

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0350 B	28872		2299	14565	0000	00000	4884
0010	0338 E	2936 F		2338	14568	0047	00002	4508
0020	0311 B	3002 B		2393	14567	0090	00009	3987
0030	0265 C	3086 B		2464	14559	0126	00018	3312
0050	0150 B	32048		2567	14528	0183	00040	2332
0075	0034	32837		2637	14491	0234	00071	1665
0100	0094	33148		2658	14527	0273	00106	1461
0125	0170	33430		2676	14568	0308	00146	1297
0150	0215	33590		2685	14595	0339	00191	1211
0175	0272 C	33787		2696	14626	0369	00239	1109
0200	0327	33992		2708	14657	0395	00290	1006
0225	0371	34180		2719	14682	0419	00343	0910
0250	0401 B	3429 C		2725	14701	0442	00397	0856
0300	0432	34434		2732	14724	0483	00514	0789

C-REF-NO 006	YR 1965	DEPTH 335	WAVES 1 XX	AIR T 02.7	VIS
CONS. NO 099	MONTH 10	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-454N	DAY 08	NO.DPTH 12	WND-DIR 110	WW-CODE 02	
LON 68-329W	HR 10.4	W-COLOR	WND-FCE 05	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1010.5	CLD-AMT 9	HW 05

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
104	0000	035 B	28775		2291	14564
104	0012	0339	29132		2321	14566
106	0023	0331	29829		2377	14573
106	0035	0281	30708		2450	14565
106	0046	0200	31609		2528	14544
106	0072	0062	32565		2613	14499
106	0097	0104	33165		2659	14531
106	0121	0174	33447		2677	14570
106	0145	0256	33743		2694	14614
106	0195	0328	34009		2709	14657
106	0243	0391	34271		2724	14695
106	0312	0434	34454		2734	14727

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0350 B	28775		2291	14564	0000	00000	4957
0010	0348 D	2909 C		2317	14569	0049	00002	4716
0020	0335 B	29616		2359	14572	0094	00009	4308
0030	0307	30328		2418	14571	0134	00019	3747
0050	0170 C	3182 D		2547	14534	0197	00044	2517
0075	0062 C	32654		2621	14501	0252	00078	1819
0100	0112	33208		2662	14535	0293	00114	1427
0125	0188	33500		2680	14577	0327	00153	1258
0150	0266 B	33780		2696	14620	0356	00194	1109
0175	0308 E	3393 C		2705	14644	0383	00239	1033
0200	0335	34039		2711	14661	0409	00288	0979
0225	0369	34179		2719	14682	0433	00340	0908
0250	0393 C	3427 B		2724	14697	0455	00394	0864
0300	0428	34427		2732	14722	0497	00512	0791

C-REF-NO 006	YR 1965	DEPTH	335	WAVES 1	XX	AIR T	03.3	VIS	
CONS. NO 100	MONTH 10	MXSAMPD	03	WAVES 2	XX	WET B		STN	
LAT 48-418N	DAY 08	NO.DPTH	12	WND-DIR	090	WW-CODE	02		
LON 68-304W	HR 11.6	W-COLOR		WND-FCE	05	CLD-TPE			
MARSD SQ 151	C/I 1810	W-TRNSP		BARO	1009.8	CLD-AMT	9	HW	06

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
116	0000	035 B	28275		2252	14557
116	0012	0331	29073		2316	14561
116	0024	0263	30738		2454	14556
116	0036	0216	31435		2513	14547
116	0048	0169	31891		2553	14534
116	0075	0040	32821		2635	14493
116	0100	0091	33135		2658	14525
116	0125	0175	33430		2676	14571
116	0150	0217	33597		2686	14596
116	0200	0316	33959		2706	14652
116	0250	0392	34276		2724	14697
116	0320	0433	34445		2733	14728

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0350 B	28275		2252	14557	0000	00000	5336
0010	0325 G	2920 I		2327	14560	0050	00002	4617
0020	0287 C	3019 I		2409	14559	0092	00009	3837
0030	0238	3116 D		2490	14552	0127	00017	3063
0050	0157 C	31973		2560	14530	0182	00039	2393
0075	0040	32821		2635	14493	0233	00071	1680
0100	0091	33135		2658	14525	0273	00106	1469
0125	0175	33430		2676	14571	0308	00146	1301
0150	0217	33597		2686	14596	0339	00191	1207
0175	0267 B	33778		2696	14624	0369	00239	1112
0200	0316	33959		2706	14652	0395	00291	1021
0225	0358	34131		2716	14676	0420	00344	0933
0250	0392	34276		2724	14697	0443	00399	0861
0300	0427	34412		2731	14721	0485	00517	0800

C-REF-NO 006	YR 1965	DEPTH 335	WAVES 1 XX	AIR T 03.8	VIS
CONS. NO 101	MONTH 10	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-454N	DAY 08	NO.DPTH 12	WND-DIR 090	WW-CODE 02	
LON 68-329W	HR 12.5	W-COLOR	WND-FCE 05	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1009.8	CLD-AMT 9	HW 07

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
125	0000	032 B	28992		2311	14553
125	0012	0311	29033		2315	14552
125	0024	0324	29872		2381	14571
125	0036	0268	30916		2468	14563
125	0048	0195	31668		2533	14543
125	0075	0059	32675		2622	14500
125	0100	0121	33240		2664	14540
128	0123	0199	33506		2680	14582
128	0147	0255	33745		2695	14614
128	0197	0339	34051		2711	14662
128	0247	0396	34293		2725	14698
128	0317	0434	34455		2734	14728

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SWA
0000	0320 B	28992		2311	14553	0000	00000	4770
0010	0327 I	2907 G		2317	14559	0048	00002	4713
0020	0322 C	2954 C		2354	14565	0093	00009	4358
0030	0301 B	3040 C		2424	14569	0134	00019	3638
0050	0181 B	31766		2542	14538	0196	00044	2566
0075	0059	32675		2622	14500	0251	00078	1802
0100	0121	33240		2664	14540	0292	00114	1408
0125	0204	33528		2681	14585	0325	00152	1249
0150	0261	33768		2696	14617	0355	00194	1113
0175	0306	33936		2705	14643	0382	00239	1027
0200	0343	34068		2712	14665	0407	00287	0964
0225	0374	34197		2720	14684	0431	00338	0900
0250	0399	34295		2725	14700	0453	00392	0853
0300	0430	34429		2732	14723	0494	00509	0790

C-REF-NO 006	YR 1965	DEPTH 335	WAVES 1 XX	AIR T 03.3	VIS
CONS. NO 102	MONTH 10	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-418N	DAY 08	NO.DPTH 12	WND-DIR 090	WW-CODE 02	
LON 68-304W	HR 13.8	W-COLOR	WND-FCE 06	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1009.1	CLD-AMT 9	HW 08

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
138	0000	035 B	27770		2212	14550
138	0012	0325	29223		2329	14561
138	0024	0274	30626		2444	14559
138	0035	0225	31330		2504	14549
138	0047	0184	31831		2547	14540
138	0074	0042	32872		2639	14495
138	0099	0106	33151		2658	14532
138	0123	0171	33388		2673	14568
138	0148	0225	33623		2687	14599
138	0198	0308	33930		2705	14648
138	0248	0386	34251		2723	14693
138	0317	0432	34454		2734	14727

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0350 B	27770		2212	14550	0000	00000	5720
0010	0327 B	2909 H		2318	14559	0052	00002	4701
0020	0293	3020 C		2409	14561	0095	00009	3834
0030	0247	3106 B		2481	14554	0130	00018	3148
0050	0165 E	3197 B		2559	14534	0186	00040	2401
0075	0043 B	32890		2641	14495	0237	00071	1629
0100	0109	33161		2659	14533	0276	00106	1460
0125	0176	33408		2674	14571	0311	00146	1318
0150	0229	33637		2688	14601	0342	00190	1186
0175	0272	33801		2698	14627	0371	00238	1099
0200	0312	33944		2705	14650	0398	00289	1028
0225	0353 B	34112		2715	14674	0423	00343	0943
0250	0382 D	3423 C		2721	14691	0446	00400	0886
0300	0423 B	34409		2731	14720	0488	00519	0798

C-REF-NO 006	YR 1965	DEPTH	335	WAVES 1	XX	AIR T	03.3	VIS	
CONS. NO 103	MONTH 10	MXSAMPD	03	WAVES 2	XX	WET B		STN	
LAT 48-454N	DAY 08	NO.DPTH	12	WND-DIR	070	WW-CODE	02		
LON 68-329W	HR 14.8	W-COLOR		WND-FCE	06	CLD-TPE			
MARSD SQ 151	C/I 1810	W-TRNSP		BARD	1008.8	CLD-AMT	9	HW	09

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
148	0000	034 B	29070		2316	14563
148	0011	0325	29165		2324	14560
148	0023	0274	30322		2420	14555
148	0034	0241	31158		2489	14554
148	0045	0188	31712		2537	14540
148	0071	0069	32283		2590	14498
148	0095	0096	33069		2652	14525
148	0118	0164	33378		2672	14564
148	0142	0220	33598		2686	14596
148	0189	0308	33925		2704	14646
148	0239	0385	34251		2723	14691
148	0309	0434	34436		2732	14726

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0340 B	29070		2316	14563	0000	00000	4726
0010	0319 E	2933 I		2338	14559	0046	00002	4511
0020	0288 B	2999 E		2393	14556	0089	00009	3986
0030	0253 B	30883		2466	14555	0126	00018	3286
0050	0159 D	3185 D		2550	14529	0184	00041	2487
0075	0067 B	3242 B		2602	14500	0240	00076	1999
0100	0110 B	33159		2658	14534	0284	00114	1463
0125	0182	33449		2677	14574	0318	00154	1291
0150	0237	33659		2689	14605	0349	00198	1175
0175	0284	33836		2699	14632	0378	00245	1083
0200	0327	34005		2709	14657	0404	00295	0997
0225	0366	34169		2718	14680	0428	00348	0913
0250	0393 B	3427 B		2723	14697	0451	00403	0867
0300	0430	34420		2731	14723	0493	00521	0798

C-REF-NO 006	YR 1965	DEPTH 335	WAVES 1 XX	AIR T 03.3	VIS
CONS. NO 104	MONTH 10	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-418N	DAY 08	NO.DPTH 12	WND-DIR 070	WW-CODE 26	
LON 68-304W	HR 15.8	W-COLOR	WND-FCE 06	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1008.4	CLD-AMT 9	HW 10

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
158	0000	034 B	27611		2200	14544
158	0012	0330	29291		2334	14564
158	0024	0260	30848		2463	14556
158	0036	0216	31446		2514	14547
158	0048	0184	31846		2548	14540
158	0075	0047	32885		2640	14497
158	0100	0098	33155		2659	14528
158	0125	0122	33242		2664	14544
158	0150	0196	33507		2680	14585
158	0200	0294	33878		2702	14641
158	0250	0385	34229		2721	14693
158	0320	0433	34450		2734	14728

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0340 B	27611		2200	14544	0000	00000	5833
0010	0321 I	2917 I		2325	14558	0053	00002	4639
0020	0285 C	3039 D		2425	14560	0094	00009	3684
0030	0236	3122 D		2495	14552	0128	00017	3018
0050	0172 C	3193 B		2556	14536	0183	00039	2433
0075	0047	32885		2640	14497	0234	00070	1635
0100	0098	33155		2659	14528	0273	00105	1458
0125	0122	33242		2664	14544	0309	00147	1407
0150	0196	33507		2680	14585	0343	00194	1259
0175	0250 C	33707		2692	14615	0373	00244	1151
0200	0294	33878		2702	14641	0401	00298	1062
0225	0343 B	34065		2712	14669	0427	00353	0968
0250	0385	34229		2721	14693	0450	00410	0889
0300	0423 B	34398		2731	14719	0493	00531	0806

C-REF-NO 006	YR 1965	DEPTH 335	WAVES 1 XX	AIR T 02.7	VIS
CONS. NO 105	MONTH 10	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-454N	DAY 08	NO.DPTH 12	WND-DIR 070	WW-CODE 26	
LON 68-329W	HR 16.9	W-COLOR	WND-FCE 06	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1006.4	CLD-AMT 9	HW 11

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
169	0000	034 B	28842		2297	14560
169	0011	0324	29447		2347	14563
169	0023	0282	30284		2417	14558
169	0034	0268	30897		2466	14562
169	0045	0206	31515		2520	14545
169	0070	0084	32298		2591	14505
169	0095	0085	33092		2654	14521
169	0120	0165	33413		2675	14565
169	0145	0213	33601		2686	14593
169	0195	0304	33925		2705	14645
169	0245	0380	34243		2723	14690
169	0315	0434	34456		2734	14727

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0340 B	28842		2297	14560	0000	00000	4899
0010	0318 E	2944 D		2347	14560	0047	00002	4426
0020	0292 B	3007 B		2399	14559	0089	00009	3928
0030	0275 C	30682		2449	14561	0126	00018	3454
0050	0176 C	3171 C		2538	14535	0187	00042	2608
0075	0076	3248 B		2605	14505	0244	00078	1963
0100	0099 C	33180		2661	14529	0287	00115	1440
0125	0176	33457		2678	14571	0321	00155	1282
0150	0223	33635		2688	14599	0352	00198	1182
0175	0269	33800		2698	14625	0381	00246	1097
0200	0313	33960		2707	14650	0408	00297	1017
0225	0352	34124		2716	14674	0432	00351	0933
0250	0382 B	3424 B		2722	14692	0455	00406	0879
0300	0426	34418		2732	14721	0498	00525	0795

C-REF-NO 006	YR 1965	DEPTH 335	WAVES 1 XX	AIR T 01.6	VIS
CONS. NO 106	MONTH 10	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-418N	DAY 08	NO.DPTH 12	WND-DIR 070	WW-CODE 63	
LON 68-304W	HR 18.0	W-COLOR	WND-FCE 06	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1004.4	CLD-AMT 9	HW 00

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
180	0000	035 B				
180	0012	0341	29361		2339	14570
180	0024	0254	30906		2468	14554
180	0036	0199	31701		2536	14543
180	0048	0134	32081		2570	14521
180	0074	0062	32937		2643	14505
180	0099	0108	33207		2662	14533
180	0124	0189	33472		2678	14577
180	0149	0202	33528		2681	14588
180	0200	0286	33852		2700	14637
180	0250	0388	34261		2723	14695
180	0320	0433	34437		2733	14727

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0350 B	2729 I		2173	14544	0000	00000	6085
0010	0329 I							
0020	0286 D	3042 D		2427	14561	0098	00008	3662
0030	0225 B	3138 B		2508	14549	0131	00016	2892
0050	0125	32156		2577	14518	0182	00036	2234
0075	0062	32953		2645	14505	0230	00066	1592
0100	0112	33220		2663	14535	0268	00100	1418
0125	0190	33476		2678	14578	0302	00139	1277
0150	0203	33533		2682	14589	0334	00183	1245
0175	0239 C	33670		2690	14610	0365	00234	1170
0200	0286	33852		2700	14637	0393	00288	1074
0225	0339 C	3407 B		2713	14667	0419	00344	0964
0250	0388	34261		2723	14695	0442	00400	0868
0300	0420 E	3439 C		2730	14718	0484	00520	0813

C-REF-NO 006	YR 1965	DEPTH 335	WAVES 1 XX	AIR T 03.3	VIS
CONS. NO 107	MONTH 10	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-454N	DAY 09	NO.DPTH 12	WND-DIR 090	WW-CODE 02	
LON 68-329W	HR 10.6	W-COLOR	WND-FCE 05	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 995.2	CLD-AMT 9	HW 04

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
106	0000	037 B	27241		2168	14552
106	0012	0337	28650		2282	14558
106	0024	0279	30626		2444	14562
106	0036	0233	31238		2496	14552
106	0048	0207	31586		2526	14547
106	0075	0059	32798		2632	14502
106	0100	0137	33306		2668	14548
106	0125	0169	33400		2674	14568
106	0150	0242	33686		2691	14608
106	0200	0336	34035		2710	14661
106	0250	0398	34297		2725	14699
106	0320	0434	34454		2734	14728

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0370 B	27241		2168	14552	0000	00000	6136
0010	0338 D	2871 I		2287	14559	0056	00003	4996
0020	0299 B	3001 I		2394	14561	0101	00009	3980
0030	0254	3103 F		2478	14557	0137	00018	3172
0050	0194 D	3168 B		2534	14543	0195	00042	2642
0075	0059	32798		2632	14502	0250	00075	1708
0100	0137	33306		2668	14548	0289	00109	1368
0125	0169	33400		2674	14568	0323	00148	1319
0150	0242	33686		2691	14608	0354	00192	1160
0175	0295 B	33885		2702	14638	0382	00239	1057
0200	0336	34035		2710	14661	0408	00288	0982
0225	0371	34179		2719	14682	0431	00340	0910
0250	0398	34297		2725	14699	0454	00394	0851
0300	0430	34429		2732	14723	0495	00510	0791

C-REF-NO 006	YR 1965	DEPTH	335	WAVES 1	XX	AIR T	03.8	VIS	
CONS. NO 108	MONTH 10	MXSAMPD	03	WAVES 2	XX	WET B		STN	
LAT 48-418N	DAY 09	NO.DPTH	12	WND-DIR	040	WW-CODE	62		
LON 68-304W	HR 11.8	W-COLOR		WND-FCE	05	CLD-TPE			
MARSD SQ 151	C/I 1810	W-TRNSP		BAKO	995.6	CLD-AMT	9	HW	05

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
118	0000	037 B	27318		2174	14553
118	0012	0344	28076		2236	14554
118	0024	0325	30210		2407	14576
118	0036	0236	31218		2494	14553
118	0048	0189	31756		2541	14541
118	0075	0067	32878		2638	14506
118	0099	0133	33278		2666	14546
118	0124	0207	33546		2682	14586
118	0149	0266	33785		2697	14619
118	0198	0324	34010		2710	14656
118	0248	0376	34209		2720	14689
118	0318	0431	34440		2733	14726

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0370 B	27318		2174	14553	0000	00000	6078
0010	0361 H	2829 I		2252	14564	0057	00003	5335
0020	0335 C	2949 I		2349	14570	0106	00010	4407
0030	0282 E	3081 D		2459	14566	0145	00020	3360
0050	0177 C	31853		2549	14537	0204	00043	2497
0075	0067	32878		2638	14506	0256	00075	1651
0100	0136	33290		2667	14547	0294	00109	1380
0125	0210	33557		2683	14588	0327	00146	1231
0150	0268	33791		2697	14620	0357	00188	1101
0175	0302 C	3393 B		2705	14641	0384	00232	1031
0200	0326	34019		2710	14657	0409	00281	0985
0225	0353	34121		2716	14674	0433	00334	0936
0250	0377	34217		2721	14689	0456	00390	0890
0300	0418	34386		2730	14717	0499	00511	0810

C-REF-NO 006	YR 1965	DEPTH 335	WAVES 1 XX	AIR T 04.4	VIS
CONS. NO 109	MONTH 10	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-454N	DAY 09	NO.DPTH 12	WND-DIR 040	WW-CODE 62	
LON 68-329W	HR 12.8	W-COLOR	WND-FCE 05	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 996.2	CLD-AMT 9	HW 06

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
128	0000	037 B	27368		2178	14553
128	0012	0353	27425		2184	14549
128	0024	0283	30597		2441	14563
128	0036	0248	31159		2489	14557
128	0048	0166	31881		2552	14533
128	0075	0056	32712		2626	14499
128	0100	0131	33280		2667	14545
128	0125	0197	33513		2681	14582
128	0150	0242	33704		2692	14608
128	0200	0347	34078		2713	14667
128	0250	0405				
128	0320	0432	34452		2734	14727

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0370 B	27368		2178	14553	0000	00000	6040
0010	0344 I	2819 I		2246	14555	0057	00003	5394
0020	0307 C	2951 I		2353	14558	0106	00010	4366
0030	0266 D	3103 I		2477	14562	0144	00019	3183
0050	0153	3197 B		2560	14528	0200	00042	2396
0075	0056	32712		2626	14499	0253	00074	1772
0100	0131	33280		2667	14545	0293	00109	1384
0125	0197	33513		2681	14581	0326	00147	1254
0150	0242	33704		2692	14608	0356	00190	1146
0175	0296 C	33900		2703	14638	0384	00236	1046
0200	0347	34078		2713	14667	0409	00284	0960
0225	0381	3418 C		2718	14686	0433	00336	0918
0250	0405	3429 C		2724	14702	0455	00391	0866
0300	0433	34424		2732	14724	0497	00509	0797

C-REF-NO 006	YR 1965	DEPTH	335	WAVES 1	XX	AIR T	05.5	VIS	
CONS. NO 110	MONTH 10	MXSAMPD	03	WAVES 2	XX	WET B		STN	
LAT 48-418N	DAY 09	NO.DPTH	12	WND-DIR	040	WW-CODE	62		
LON 68-304W	HR 13.8	W-COLOR		WND-FCE	04	CLD-TPE			
MARSD SQ 151	C/I 1810	W-TRNSP		BARO	996.6	CLD-AMT	9	HW	07

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
138	0000	037 B	27123		2159	14550
138	0012	0342	27868		2220	14550
138	0024	0329	29699		2366	14571
138	0036	0232	31264		2498	14552
138	0048	0188	31716		2538	14540
138	0075	0066	32852		2636	14506
138	0100	0144	33318		2669	14551
138	0125	0217	33599		2686	14591
138	0150	0246	33703		2692	14610
138	0200	0331	34047		2712	14659
138	0250	0387	34262		2723	14694
138	0320	0432	34444		2733	14727

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0370 B	27123		2159	14550	0000	00000	6226
0010	0363 I	2790 I		2221	14559	0059	00003	5628
0020	0337 D	2904 F		2314	14565	0111	00011	4744
0030	0282 F	3057 D		2439	14563	0153	00021	3547
0050	0176 C	3181 B		2546	14536	0214	00045	2530
0075	0066	32852		2636	14506	0267	00077	1671
0100	0144	33318		2669	14551	0305	00111	1364
0125	0217	33599		2686	14591	0338	00148	1204
0150	0246	33703		2692	14610	0367	00190	1150
0175	0288 C	3387 B		2702	14634	0395	00236	1060
0200	0331	34047		2712	14659	0421	00285	0968
0225	0362	34167		2718	14678	0444	00337	0910
0250	0387	34262		2723	14694	0467	00391	0866
0300	0424	34415		2732	14720	0509	00509	0795

C-REF-NO 006	YR 1965	DEPTH 335	WAVES 1 XX	AIR T 06.1	VIS
CONS. NO 111	MONTH 10	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-454N	DAY 09	NO.DPTH 12	WND-DIR 040	WW-CODE 62	
LON 68-329W	HR 14.6	W-COLOR	WND-FCE 04	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 996.6	CLD-AMT 9	HW 08

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
146	0000	037 B	27564		2194	14556
146	0012	0349	27643		2202	14550
146	0024	0321	30505		2431	14578
146	0036	0219	31428		2512	14548
146	0048	0143	32004		2564	14524
146	0075	0061	32860		2637	14503
146	0100	0149	33353		2671	14554
146	0125	0213	33583		2685	14590
146	0150	0241	33692		2691	14607
146	0200	0324	34004		2709	14656
146	0250	0393	34287		2725	14697
146	0320	0432	34440		2733	14727

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0370 B	27564		2194	14556	0000	00000	5891
0010	0365 G	2826 I		2249	14565	0056	00003	5362
0020	0335 C	2950 I		2350	14570	0105	00010	4393
0030	0273 D	3111 H		2483	14566	0143	00019	3129
0050	0132	32084		2571	14520	0198	00041	2293
0075	0061	32860		2637	14503	0247	00072	1662
0100	0149	33353		2671	14554	0285	00105	1341
0125	0213	33583		2685	14589	0317	00142	1213
0150	0241	33692		2691	14607	0347	00184	1154
0175	0281 B	33842		2700	14631	0375	00231	1076
0200	0324	34004		2709	14656	0402	00281	0994
0225	0362	34156		2718	14678	0426	00333	0918
0250	0393	34287		2725	14697	0448	00388	0853
0300	0425	34408		2731	14720	0490	00505	0801

C-REF-NO 006	YR 1965	DEPTH	335	WAVES 1	XX	AIR T	06.6	VIS	
CONS. NO 112	MONTH 10	MXSAMPD	03	WAVES 2	XX	WET B		STN	
LAT 48-418N	DAY 09	NO.DPTH	12	WND-DIR	040	WW-CODE	62		
LON 68-304W	HR 15.5	W-COLOR		WND-FCE	03	CLD-TPE			
MARSD SQ 151	C/I 1810	W-TRNSP		BARO	996.6	CLD-AMT	9	HW	09

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
155	0000	037 B	27124		2159	14550
155	0012	0340	28033		2233	14551
155	0024	0340	29612		2359	14574
155	0036	0256	31016		2477	14559
155	0048	0178	31838		2548	14537
155	0075	0064	32851		2636	14505
155	0100	0141	33323		2669	14550
155	0125	0222	33616		2687	14594
155	0150	0262	33782		2697	14618
155	0200	0315	33978		2708	14652
155	0250	0373	34205		2720	14688
155	0320	0431	34445		2733	14727

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0370 B	27124		2159	14550	0000	00000	6225
0010	0363 I	2798 I		2227	14560	0059	00003	5569
0020	0343 D	2906 D		2314	14568	0111	00011	4737
0030	0303 D	3036 B		2421	14569	0153	00021	3718
0050	0165 B	31942		2557	14533	0215	00045	2422
0075	0064	32851		2636	14505	0267	00077	1670
0100	0141	33323		2669	14550	0305	00111	1358
0125	0222	33616		2687	14594	0337	00147	1195
0150	0262	33782		2697	14618	0366	00188	1104
0175	0290 B	33889		2703	14636	0393	00233	1049
0200	0315	33978		2708	14652	0419	00283	1005
0225	0345	34092		2714	14670	0443	00337	0949
0250	0373	34205		2720	14688	0467	00393	0894
0300	0414	34374		2730	14716	0510	00515	0815

C-REF-NO 006	YR 1965	DEPTH	335	WAVES 1	XX	AIR T	06.6	VIS
CONS. NO 113	MONTH 10	MXSAMPD	03	WAVES 2	XX	WET B		STN
LAT 48-454N	DAY 09	NO.DPTH	12	WND-DIR	040	WW-CODE	62	
LON 68-329W	HR 16.4	W-COLOR		WND-FCE	03	CLD-TPE		
MARSD SQ 151	C/I 1810	W-TRNSP		BARO	996.6	CLD-AMT	9	HW 10

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
164	0000	036 B	27646		2201	14553
164	0012	0348	27829		2216	14552
164	0024	0320	30506		2431	14578
164	0036	0232	31173		2491	14550
164	0048	0192	31693		2536	14542
164	0075	0062	32620		2618	14501
164	0100	0129	33275		2666	14544
164	0125	0208	33586		2686	14587
164	0150	0255	33747		2695	14614
164	0200	0320	34011		2710	14654
164	0250	0389	34263		2723	14695
164	0320	0433	34464		2735	14728

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0360 B	27646		2201	14553	0000	00000	5821
0010	0359 D	2841 I		2261	14564	0055	00003	5243
0020	0334 B	2959 I		2357	14571	0104	00010	4329
0030	0277 E	3097 I		2472	14566	0142	00019	3234
0050	0180 C	31771		2543	14538	0200	00042	2561
0075	0062	32620		2618	14501	0255	00077	1845
0100	0129	33275		2666	14544	0296	00113	1387
0125	0208	33586		2686	14587	0329	00150	1207
0150	0255	33747		2695	14614	0358	00191	1124
0175	0290 B	33885		2703	14635	0385	00237	1051
0200	0320	34011		2710	14654	0411	00286	0985
0225	0356 B	34143		2717	14675	0435	00339	0922
0250	0389	34263		2723	14695	0458	00393	0867
0300	0421 B	34413		2732	14719	0500	00511	0793

C-REF-NO 006	YR 1965	DEPTH	335	WAVES 1	XX	AIR T	06.6	VIS	
CONS. NO 114	MONTH 10	MXSAMPD	03	WAVES 2	XX	WET B		STN	
LAT 48-418N	DAY 09	NO.DPTH	12	WND-DIR	070	WW-CODE	62		
LON 68-304W	HR 17.5	W-COLOR		WND-FCE	04	CLD-TPE			
MARSD SQ 151	C/I 1810	W-TRNSP		BARO	995.2	CLD-AMT	9	HW	11

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
175	0000	037 B	27169		2162	14551
175	0011	0342	27993		2230	14551
175	0023	0332	29606		2359	14571
175	0034	0254	30996		2475	14557
175	0045	0199	31604		2528	14543
175	0070	0061	32654		2621	14500
175	0094	0079	32993		2647	14517
175	0117	0154	33301		2667	14558
175	0141	0239	33680		2691	14605
175	0189	0291	33881		2702	14638
175	0238	0369	34200		2720	14684
175	0307	0426	34417		2732	14722

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0370 B	27169		2162	14551	0000	00000	6191
0010	0360 I	2803 I		2231	14559	0059	00003	5532
0020	0337 C	2917 C		2324	14567	0110	00010	4646
0030	0285 D	3054 C		2437	14564	0151	00021	3569
0050	0166 E	31861		2551	14533	0212	00045	2484
0075	0056 C	3275 B		2629	14500	0265	00077	1741
0100	0096 B	33072		2652	14526	0306	00114	1520
0125	0184 B	33434		2675	14575	0342	00155	1304
0150	0254 E	3374 C		2694	14614	0372	00197	1127
0175	0283 F	3386 D		2701	14632	0400	00243	1068
0200	0309 B	33954		2706	14648	0426	00294	1018
0225	0349 B	34116		2716	14672	0451	00348	0935
0250	0370 G	3420 D		2720	14686	0474	00404	0896
0300	0420 B	34392		2730	14718	0517	00525	0807

C-REF-NO 006	YR 1965	DEPTH 335	WAVES 1 XX	AIR T 06.6	VIS
CONS. NO 115	MONTH 10	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-454N	DAY 09	NO.DPTH 12	WND-DIR 070	WW-CODE 62	
LON 68-329W	HR 18.5	W-COLOR	WND-FCE 04	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 994.2	CLD-AMT 9	HW 00

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
185	0000	036 B	27426		2184	14550
185	0012	0343	28526		2272	14559
185	0024	0304	30587		2439	14572
185	0036	0228	31231		2496	14549
185	0048	0196	31617		2529	14542
185	0075	0068	32906		2640	14507
185	0100	0131	33288		2667	14545
185	0125	0208	33564		2684	14587
185	0150	0257	33756		2695	14615
185	0200	0319	33974		2707	14653
185	0250	0378	34228		2722	14690
185	0320	0433	34469		2735	14728

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0360 B	27426		2184	14550	0000	00000	5988
0010	0350 B	2869 I		2284	14564	0055	00003	5022
0020	0320	2993 I		2385	14569	0101	00009	4062
0030	0266 C	3101 F		2476	14562	0137	00018	3196
0050	0184 C	3172 B		2538	14539	0196	00042	2605
0075	0068	32906		2640	14507	0249	00074	1631
0100	0131	33288		2667	14545	0287	00108	1378
0125	0208	33564		2684	14587	0320	00145	1224
0150	0257	33756		2695	14615	0349	00187	1119
0175	0291 B	3388 B		2702	14636	0377	00233	1059
0200	0319	33974		2707	14653	0403	00283	1012
0225	0350	34103		2715	14672	0427	00336	0946
0250	0378	34228		2722	14690	0450	00393	0882
0300	0419	34398		2731	14718	0493	00512	0801

C-REF-NO 006	YR 1965	DEPTH 335	WAVES 1 XX	AIR T 06.1	VIS
CONS. NO 116	MONTH 10	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-418N	DAY 09	NO.DPTH 12	WND-DIR 090	WW-CODE 62	
LON 68-304W	HR 19.5	W-COLOR	WND-FCE 04	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 993.2	CLD-AMT 9	HW 00

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
195	0000	038 B	26985		2147	14553
195	0012	0339	28277		2253	14554
195	0024	0297	30506		2433	14568
195	0036	0221	31418		2512	14549
195	0048	0159	31917		2556	14530
195	0074	0068	32841		2635	14506
195	0099	0104	33128		2656	14531
195	0124	0153	33364		2672	14560
195	0149	0258	33762		2696	14616
195	0198	0331	34034		2711	14659
195	0248	0376	34211		2721	14689
195	0318	0432	34452		2734	14727

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0380 B	26985		2147	14553	0000	00000	6338
0010	0352 C	2839 I		2260	14561	0058	00003	5252
0020	0313	2978 I		2374	14564	0105	00010	4164
0030	0260 B	3107 E		2481	14560	0142	00019	3149
0050	0149	32003		2563	14527	0198	00041	2365
0075	0068	32859		2637	14507	0248	00072	1667
0100	0105	33136		2657	14531	0288	00107	1477
0125	0157	33380		2673	14562	0323	00148	1326
0150	0261	33771		2696	14617	0354	00191	1110
0175	0309 F	3395 C		2706	14645	0381	00235	1017
0200	0333	34042		2711	14660	0406	00284	0974
0225	0357	34136		2716	14676	0430	00336	0929
0250	0383 D	3424 B		2722	14692	0453	00391	0880
0300	0422 B	34404		2731	14719	0495	00510	0801

C-REF-NO 006	YR 1965	DEPTH 335	WAVES 1 XX	AIR T 06.1	VIS
CONS. NO 117	MONTH 10	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-454N	DAY 09	NO.DPTH 12	WND-DIR 090	WW-CODE 62	
LON 68-329W	HR 20.4	W-COLOR	WND-FCE 05	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 992.2	CLD-AMT 9	HW 02

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
204	0000	037 B	27349		2177	14553
204	0012	0341	28176		2244	14554
204	0024	0311	30456		2428	14573
204	0035	0242	31181		2491	14555
204	0047	0190	31669		2534	14540
204	0073	0066	32805		2632	14505
204	0098	0137	33310		2669	14548
204	0123	0206	33546		2683	14586
204	0147	0249	33724		2693	14611
204	0196	0321	33998		2709	14654
204	0246	0392	34271		2724	14696
204	0316	0434	34454		2734	14727

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0370 B	27349		2177	14553	0000	00000	6054
0010	0354 E	2845 I		2265	14563	0056	00003	5206
0020	0324 B	2970 I		2367	14568	0104	00010	4234
0030	0275 C	3095 E		2470	14565	0141	00019	3252
0050	0171 D	3181 B		2547	14534	0200	00042	2523
0075	0068 B	32861		2637	14507	0252	00074	1665
0100	0143	33335		2670	14551	0290	00108	1351
0125	0210	33562		2684	14588	0323	00145	1227
0150	0254	33743		2694	14614	0352	00187	1126
0175	0292	33888		2703	14636	0380	00233	1050
0200	0327	34022		2710	14657	0405	00282	0984
0225	0364 B	34164		2718	14679	0429	00334	0915
0250	0389 D	3426 B		2723	14695	0452	00389	0867
0300	0426 B	34419		2732	14721	0494	00507	0794

C-REF-NO 006	YR 1965	DEPTH	335	WAVES 1	XX	AIR T	05.5	VIS	
CONS. NO 118	MONTH 10	MXSAMPD	03	WAVES 2	XX	WET B		STN	
LAT 48-418N	DAY 09	NO.DPTH	12	WND-DIR	090	WW-CODE	02		
LON 68-304W	HR 21.5	W-COLOR		WND-FCE	05	CLD-TPE			
MARSD SQ 151	C/I 1810	W-TRNSP		BARO	994.5	CLD-AMT	9	HW	03

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
215	0000	037 B	27189		2164	14551
215	0012	0334	28621		2280	14557
215	0023	0311	30051		2396	14568
215	0035	0249	31066		2481	14556
215	0046	0176	31766		2542	14535
215	0072	0062	32854		2637	14503
215	0096	0123	33235		2664	14540
215	0120	0196	33522		2681	14580
215	0144	0252	33729		2694	14612
215	0193	0315	33982		2708	14650
215	0242	0370	34192		2720	14685
215	0312	0430	34441		2733	14725

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0370 B	27189		2164	14551	0000	00000	6176
0010	0347 E	2849 H		2269	14560	0057	00003	5174
0020	0318 B	2968 C		2366	14565	0104	00010	4247
0030	0278	3069 B		2449	14563	0143	00019	3448
0050	0150 B	31982		2561	14527	0201	00042	2382
0075	0065 C	32921		2642	14506	0252	00073	1618
0100	0135	33289		2667	14547	0290	00107	1380
0125	0209	33571		2684	14588	0322	00144	1220
0150	0262	33767		2696	14617	0352	00186	1115
0175	0296 C	33905		2704	14638	0379	00231	1042
0200	0323	34014		2710	14656	0405	00280	0986
0225	0352	34123		2716	14673	0429	00333	0933
0250	0377	34227		2722	14690	0452	00388	0883
0300	0421	34404		2731	14719	0494	00508	0800

C-REF-NO 006	YR 1965	DEPTH 335	WAVES 1 XX	AIR T 04.9	VIS
CONS. NO 119	MONTH 10	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-454N	DAY 09	NO.DPTH 12	WND-DIR 090	WW-CODE 02	
LON 68-329W	HR 22.4	W-COLOR	WND-FCE 04	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 996.9	CLD-AMT 9	HW 04

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
224	0000	037 B	27270		2170	14552
224	0012	0345	27718		2208	14549
224	0024	0317	30413		2424	14575
224	0035	0243	31137		2487	14555
224	0047	0186	31735		2539	14539
224	0073	0064	32866		2637	14505
224	0098	0152	33353		2671	14555
224	0123	0192	33494		2679	14579
224	0147	0254	33747		2695	14613
224	0197	0331	34032		2711	14659
224	0247	0398	34300		2725	14699
224	0317	0432	34451		2734	14727

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0370 B	27270		2170	14552	0000	00000	6114
0010	0358 E	2821 I		2246	14561	0058	00003	5392
0020	0330 B	2950 I		2351	14568	0107	00010	4391
0030	0278 C	3092 H		2468	14566	0145	00020	3275
0050	0166 D	31887		2553	14533	0203	00042	2464
0075	0068 C	32922		2642	14508	0254	00074	1618
0100	0156	33368		2672	14557	0292	00107	1334
0125	0197	33514		2681	14582	0324	00144	1253
0150	0260	33769		2696	14617	0354	00186	1112
0175	0302 C	3393 B		2705	14641	0381	00231	1030
0200	0336	34050		2712	14661	0406	00279	0970
0225	0371	34191		2719	14683	0430	00331	0901
0250	0395 D	3429 B		2725	14698	0452	00385	0856
0300	0427 B	34423		2732	14721	0493	00502	0792

C-REF-NO 006	YR 1965	DEPTH	335	WAVES 1	XX	AIR T 04.4	VIS
CONS. NO 120	MONTH 10	MXSAMPD	03	WAVES 2	XX	WET B	STN
LAT 48-418N	DAY 09	NO.DPTH	12	WND-DIR	070	WW-CODE 02	
LON 68-304W	HR 23.5	W-COLOR		WND-FCE	04	CLO-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP		BARO	998.9	CLO-AMT	HW 05

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
235	0000	037 B	27333		2175	14553
235	0012	0335	28747		2290	14559
235	0024	0287	30574		2439	14564
235	0036	0242	31189		2492	14555
235	0048	0164	31867		2551	14532
235	0074	0058	32853		2637	14502
235	0099	0151	33359		2672	14555
235	0124	0206	33562		2684	14586
235	0148	0258	33761		2696	14615
235	0198	0326	34013		2710	14656
235	0247	0382	34240		2722	14691
235	0317	0432	34441		2733	14727

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0370 B	27333		2175	14553	0000	00000	6067
0010	0339 B	2877 I		2291	14560	0055	00003	4956
0020	0304	3001 H		2393	14563	0100	00009	3986
0030	0266 B	3095 G		2471	14561	0136	00018	3242
0050	0151 B	31963		2560	14527	0193	00041	2397
0075	0060 B	32880		2639	14503	0244	00072	1646
0100	0154	33370		2672	14556	0282	00105	1331
0125	0208	33571		2684	14587	0314	00142	1219
0150	0261	33773		2696	14617	0343	00183	1110
0175	0299 B	33912		2704	14640	0370	00228	1039
0200	0329	34023		2710	14658	0396	00277	0984
0225	0359	34144		2717	14676	0420	00330	0924
0250	0383	34240		2722	14692	0442	00385	0878
0300	0422	34399		2731	14719	0485	00504	0805

C-REF-NO 006	YR 1965	DEPTH 335	WAVES 1 XX	AIR T 04.4	VIS
CONS. NO 121	MONTH 10	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-454N	DAY 10	NO.DPTH 12	WND-DIR 070	WW-CODE 02	
LON 68-329W	HR 00.4	W-COLOR	WND-FCE 04	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1001.6	CLD-AMT 9	HW 06

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
004	0000	037 B	27298		2173	14553
004	0012	0347	27672		2204	14550
004	0024	0306	30463		2429	14571
004	0036	0239	31193		2492	14554
004	0048	0203	31537		2522	14544
004	0075	0075	32722		2625	14508
004	0099	0120	33234		2664	14539
004	0124	0219	33597		2686	14592
004	0149	0270	33795		2697	14621
004	0198	0328	34024		2710	14657
004	0248	0399	34307		2726	14700
004	0317	0432	34448		2734	14727

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0370 B	27298		2173	14553	0000	00000	6093
0010	0353	2822 I		2247	14559	0058	00003	5381
0020	0322	2951 I		2352	14565	0106	00010	4376
0030	0272 C	3098 I		2473	14564	0145	00019	3226
0050	0191 C	3163 B		2530	14541	0204	00043	2679
0075	0075	32722		2625	14508	0260	00078	1774
0100	0124	33252		2665	14541	0300	00113	1401
0125	0222	33607		2686	14594	0333	00150	1202
0150	0271	33800		2698	14622	0362	00191	1098
0175	0304 C	3393 B		2705	14642	0389	00236	1032
0200	0331	34036		2711	14659	0414	00284	0977
0225	0368 B	34183		2719	14681	0438	00336	0904
0250	0390 G	3427 C		2724	14696	0460	00390	0861
0300	0424 C	3441 B		2732	14720	0502	00508	0796

C-REF-NO 006	YR 1965	DEPTH 335	WAVES 1 XX	AIR T 04.4	VIS
CONS. NO 122	MONTH 10	MXSAMPD 02	WAVES 2 XX	WET B	STN
LAT 48-418N	DAY 10	NO.DPTH 12	WND-DIR 070	WW-CODE 02	
LON 68-304W	HR 01.4	W-COLOR	WND-FCE 04	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1002.0	CLD-AMT 9	HW 07

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
014	0000	036 B	28296		2252	14562
014	0010	0343	28325		2256	14556
014	0024	0311	30250		2412	14570
014	0039	0234	31264		2498	14553
014	0054	0144	32004		2564	14526
014	0069	0063	32859		2637	14503
014	0083	0088	33047		2651	14520
014	0098	0162	33407		2675	14560
014	0123	0211	33592		2686	14588
014	0148	0269	33798		2698	14621
014	0197	0328	34025		2710	14657
014	0247	0378	34227		2722	14690

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0360 B	28296		2252	14562	0000	00000	5328
0010	0343	28325		2256	14556	0053	00003	5293
0020	0323	2964 I		2362	14567	0101	00010	4283
0030	0284	3074 D		2453	14566	0140	00020	3419
0050	0168	3181 B		2547	14533	0200	00043	2521
0075	0065 B	3297 D		2646	14507	0251	00075	1583
0100	0167 B	33431		2676	14563	0288	00107	1294
0125	0216	33609		2687	14591	0319	00143	1196
0150	0272	33810		2698	14623	0348	00183	1091
0175	0307 C	33939		2706	14643	0375	00228	1025
0200	0341 F	3407 C		2713	14664	0400	00276	0961
0225	0365 D	3417 B		2718	14679	0423	00327	0913
*0250	0379	34234		2722	14691	0446	00382	0879

C-REF-NO 006	YR 1965	DEPTH 335	WAVES 1 XX	AIR T 04.4	VIS
CONS. NO 123	MONTH 10	MXSAMPD 02	WAVES 2 XX	WET B	STN
LAT 48-454N	DAY 10	NO.DPTH 12	WND-DIR 070	WW-CODE 02	
LON 68-329W	HR 02.3	W-COLOR	WND-FCE 04	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1002.7	CLD-AMT 9	HW 08

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
023	0000	037 B	27273		2171	14552
023	0010	0352	27617		2199	14551
023	0025	0333	30170		2403	14579
023	0040	0228	31314		2503	14551
023	0055	0131	32093		2572	14521
023	0070	0078	32902		2640	14511
023	0084	0098	33116		2656	14525
023	0099	0138	33287		2667	14548
023	0124	0230	33646		2689	14598
023	0149	0267	33780		2696	14620
023	0198	0318	33984		2708	14653
023	0248	0385	34235		2722	14693

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0370 B	27273		2171	14552	0000	00000	6112
0010	0352	27617		2199	14551	0060	00003	5837
0020	0344 D	2926 I		2330	14571	0112	00011	4583
0030	0302 D	3065 E		2444	14573	0153	00021	3499
0050	0160 B	3185 B		2550	14530	0213	00044	2487
0075	0080 B	3301 B		2648	14514	0264	00075	1557
0100	0142	33303		2668	14550	0301	00108	1374
0125	0232	33654		2689	14599	0333	00145	1175
0150	0268	33784		2697	14620	0362	00185	1107
0175	0295 B	33890		2703	14638	0389	00231	1052
0200	0327 D	3401 B		2709	14657	0415	00280	0991
0225	0358 C	34129		2716	14676	0439	00333	0934
*0250	0387	34244		2722	14694	0462	00389	0880

C-REF-NO 006	YR 1965	DEPTH 335	WAVES 1 XX	AIR T 04.9	VIS
CONS. NO 124	MONTH 10	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 48-418N	DAY 10	NO.DPTH 8	WND-DIR 040	WW-CODE 02	
LON 68-304W	HR 03.1	W-COLOR	WND-FCE 04	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1003.3	CLD-AMT 9	HW 09

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
031	0000	036 B	28175		2243	14560
031	0010	0343	28259		2251	14555
031	0025	0282	30628		2444	14563
031	0039	0227	31271		2499	14550
031	0054	0163	31861		2551	14532
031	0069	0072	32842		2635	14507
031	0084	0075	33010		2648	14513
031	0099	0156	33382		2673	14557

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0360 B	28175		2243	14560	0000	00000	5420
0010	0343	28259		2251	14555	0054	00003	5343
0020	0305 B	2979 I		2375	14561	0102	00010	4156
0030	0263	3095 G		2471	14560	0139	00019	3242
0050	0182	3169 B		2536	14537	0198	00043	2624
0075	0063	3295 E		2644	14505	0251	00075	1597
0100	0165	3339 B		2673	14561	0288	00108	1327

C-REF-NO 006	YR 1965	DEPTH 335	WAVES 1 XX	AIR T 04.9	VIS
CONS. NO 125	MONTH 10	MXSAMPD 02	WAVES 2 XX	WET B	STN
LAT 48-454N	DAY 10	NO.DPTH 12	WND-DIR 040	WW-CODE 02	
LON 68-329W	HR 04.1	W-COLOR	WND-FCE 04	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1003.7	CLD-AMT 9	HW 10

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
041	0000	037 B	27394		2180	14554
041	0010	0343	28070		2236	14553
041	0025	0340	29646		2361	14575
041	0040	0239	31218		2494	14555
041	0055	0144	32004		2564	14526
041	0070	0072	32794		2631	14507
041	0085	0097	33149		2658	14525
041	0100	0156				
041	0125	0246	33708		2692	14606
041	0150	0266	33781		2696	14619
041	0200	0321	34009		2710	14655
041	0250	0398	34298		2725	14699

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0370 B	27394		2180	14554	0000	00000	6020
0010	0343	28070		2236	14553	0058	00003	5486
0020	0344 E	2908 C		2316	14568	0109	00010	4719
0030	0311 D	3021 D		2409	14571	0152	00021	3837
0050	0174	3179 D		2544	14535	0216	00046	2547
0075	0073 B	3294 B		2643	14510	0268	00078	1607
0100	0156	33424		2676	14558	0305	00110	1292
0125	0246	33708		2692	14606	0336	00146	1145
0150	0266	33781		2696	14619	0364	00186	1108
0175	0291	33884		2703	14636	0391	00231	1053
0200	0321	34009		2710	14655	0417	00280	0988
0225	0357	34140		2717	14676	0441	00333	0926
0250	0398	34298		2725	14699	0463	00387	0850

C-REF-NO 006	YR 1965	DEPTH 335	WAVES 1 XX	AIR T 04.9	VIS
CONS. NO 126	MONTH 10	MXSAMPD 02	WAVES 2 XX	WET B	STN
LAT 48-418N	DAY 10	NO.DPTH 12	WND-DIR 040	WW-CODE 02	
LON 68-304W	HR 05.2	W-COLOR	WND-FCE 04	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1004.0	CLD-AMT 9	HW 11

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
052	0000	036 B	27876		2219	14556
052	0010	0350	27927		2224	14554
052	0024	0306	30349		2420	14570
052	0039	0239	31173		2491	14554
052	0053	0195	31633		2531	14543
052	0068	0105	32251		2586	14514
052	0082	0055	32667		2622	14499
052	0097	0103	33141		2657	14530
052	0121	0180	33462		2678	14573
052	0145	0249	33703		2692	14610
052	0195	0309	33952		2706	14648
052	0245	0372	34192		2719	14686

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0360 B	27876		2219	14556	0000	00000	5647
0010	0350	27927		2224	14554	0056	00003	5600
0020	0321	2960 I		2359	14565	0106	00010	4311
0030	0279 B	3081 G		2459	14565	0145	00020	3361
0050	0205 B	3154 B		2523	14546	0206	00044	2752
0075	0072 C	32467		2605	14503	0266	00081	1967
0100	0113	33198		2661	14536	0308	00119	1435
0125	0193	33508		2681	14579	0342	00157	1255
0150	0257 B	33736		2694	14615	0372	00200	1135
0175	0292 E	3387 B		2702	14636	0400	00246	1062
0200	0333 I	3403 D		2710	14660	0426	00295	0985
0225	0359 G	3413 B		2716	14676	0450	00348	0933
*0250	0374 B	34203		2720	14688	0473	00404	0897

C-REF-NO 006	YR 1965	DEPTH 335	WAVES 1 XX	AIR T 04.9	VIS
CONS. NO 127	MONTH 10	MXSAMPD 02	WAVES 2 XX	WET B	STN
LAT 48-454N	DAY 10	NO.DPTH 12	WND-DIR 040	WW-CODE 02	
LON 68-329W	HR 06.2	W-COLOR	WND-FCE 04	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1004.4	CLD-AMT 9	HW 12

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
062	0000	037 B	27093		2156	14550
062	0010	0335	28576		2277	14556
062	0024	0326	30133		2401	14575
062	0039	0245	31120		2486	14556
062	0053	0167	31842		2549	14533
062	0068	0068	32566		2613	14501
062	0083	0074	32969		2645	14512
062	0097	0105	33161		2659	14531
062	0122	0193	33515		2681	14579
062	0146	0249	33719		2693	14611
062	0196	0307	33947		2706	14647
062	0246	0384	34247		2723	14692

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0370 B	27093		2156	14550	0000	00000	6249
0010	0335	28576		2277	14556	0057	00003	5096
0020	0329 D	29750		2370	14571	0104	00010	4202
0030	0298 C	3058 C		2439	14570	0142	00019	3547
0050	0184	31697		2536	14539	0205	00044	2620
0075	0063 C	32787		2631	14503	0259	00077	1718
0100	0115 B	33207		2662	14537	0299	00112	1430
0125	0201	33546		2683	14584	0332	00151	1233
0150	0255 B	33741		2694	14614	0362	00193	1129
0175	0286 D	3386 B		2701	14633	0390	00239	1065
0200	0327 I	3402 D		2710	14657	0416	00288	0986
0225	0360 F	3415 C		2717	14677	0440	00340	0921
*0250	0388 B	34264		2724	14695	0462	00395	0865

C-REF-NO 006	YR 1965	DEPTH 335	WAVES 1 XX	AIR T 05.5	VIS
CONS. NO 128	MONTH 10	MXSAMPD 02	WAVES 2 XX	WET B	STN
LAT 48-418N	DAY 10	NO.DPTH 12	WND-DIR 040	WW-CODE 02	
LON 68-304W	HR 07.4	W-COLOR	WND-FCE 04	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1005.0	CLD-AMT 9	HW 01

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
074	0000	037 B	27823		2214	14560
074	0010	0351	27861		2219	14553
074	0025	0301	30432		2427	14569
074	0040	0235	31259		2498	14553
074	0055	0153	31927		2557	14529
074	0069	0059	32550		2612	14497
074	0084	0069	32943		2643	14510
074	0099	0126	33235		2663	14542
074	0123	0218	33598		2686	14592
074	0148	0266	33771		2696	14619
074	0198	0321	33998		2709	14654
074	0248	0388	34255		2723	14694

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0370 B	27823		2214	14560	0000	00000	5695
0010	0351	27861		2219	14553	0057	00003	5651
0020	0320	2950 I		2352	14564	0107	00010	4381
0030	0281	3081 G		2459	14566	0146	00020	3359
0050	0182	31713		2538	14538	0206	00044	2607
0075	0053 C	32730		2627	14498	0261	00078	1756
0100	0130	33253		2665	14544	0301	00113	1404
0125	0223	33616		2687	14594	0334	00150	1196
0150	0269	33781		2696	14621	0363	00191	1110
0175	0298 C	33902		2703	14639	0390	00236	1046
0200	0334 G	3404 C		2711	14660	0415	00285	0979
0225	0364 D	3416 B		2717	14679	0439	00337	0920
*0250	0390	34263		2723	14696	0462	00392	0868

C-REF-NO 006	YR 1965	DEPTH 335	WAVES 1 XX	AIR T 05.5	VIS
CONS. NO 129	MONTH 10	MXSAMPD 02	WAVES 2 XX	WET B	STN
LAT 48-454N	DAY 10	NO.DPTH 12	WND-DIR 040	WW-CODE 02	
LON 68-329W	HR 08.5	W-COLOR	WND-FCE 04	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARD 1005.7	CLD-AMT 9	HW 02

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
085	0000	037 B	27161		2162	14551
085	0010	0334	29077		2317	14562
085	0025	0289	30646		2445	14566
085	0040	0209	31517		2520	14546
085	0055	0087	32333		2593	14505
085	0070	0055	32846		2636	14500
085	0085	0097	33120		2656	14525
085	0099	0127	33272		2666	14543
085	0124	0206	33559		2684	14586
085	0149	0259	33754		2695	14616
085	0199	0321	33994		2709	14654
085	0249	0376	34204		2720	14689

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0370 B	27161		2162	14551	0000	00000	6197
0010	0334	29077		2317	14562	0055	00002	4716
0020	0305 B	3025 D		2412	14567	0098	00009	3806
0030	0267	3098 C		2473	14562	0133	00018	3224
0050	0125 E	32081		2571	14517	0188	00039	2291
0075	0065 C	32957		2645	14507	0237	00070	1590
0100	0130	33284		2667	14545	0275	00103	1380
0125	0209	33568		2684	14587	0307	00140	1221
0150	0261	33760		2695	14617	0337	00182	1119
0175	0295 B	33893		2703	14638	0364	00227	1050
0200	0330 E	3402 B		2710	14659	0390	00277	0985
0225	0357 C	3413 B		2716	14676	0414	00329	0934
*0250	0377	34207		2720	14689	0437	00385	0897

C-REF-NO 006	YR 1965	DEPTH	335	WAVES 1	XX	AIR T	04.9	VIS	
CONS. NO 130	MONTH 10	MXSAMPD	02	WAVES 2	XX	WET B		STN	
LAT 48-418N	DAY 10	NO.DPTH	12	WND-DIR	040	WW-CODE	02		
LON 68-304W	HR 10.3	W-COLOR		WND-FCE	04	CLD-TPE			
MARSD SQ 151	C/I 1810	W-TRNSP		BARO	1007.1	CLD-AMT	9	HW	03

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
103	0000	036 B	27827		2215	14555
103	0010	0346	28330		2256	14558
103	0025	0276	30662		2447	14561
103	0040	0212	31476		2517	14546
103	0055	0143	32023		2565	14526
103	0069	0075	32646		2619	14506
103	0084	0095	33099		2654	14524
103	0099	0151	33366		2672	14555
103	0123	0214	33602		2686	14590
103	0148	0283	33849		2700	14627
103	0198	0322	34007		2710	14655
103	0247	0384	34243		2722	14692

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0360 B	27827		2215	14555	0000	00000	5684
0010	0346	28330		2256	14558	0055	00003	5291
0020	0302 C	2986 I		2382	14561	0102	00010	4095
0030	0255	3103 F		2478	14557	0139	00019	3174
0050	0166	3185 B		2550	14533	0196	00041	2494
0075	0075 C	32852		2636	14510	0248	00074	1676
0100	0154	33378		2673	14556	0286	00107	1325
0125	0220	33624		2688	14593	0318	00143	1188
0150	0286	33859		2701	14629	0346	00183	1066
0175	0311 G	3396 C		2707	14645	0372	00227	1016
0200	0348 I	3410 G		2714	14667	0397	00274	0948
0225	0371 I	3419 D		2719	14682	0420	00325	0903
*0250	0385 B	34249		2723	14693	0443	00380	0874

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10	Gulf of St. Lawrence, Halifax Section, and Scotian Shelf to Grand Banks. Three Surveys.	10-65-002 10-65-003 10-65-004
11	Ocean Weather Station "P"	02-66-002
12	Arctic 1961	341 344
13	Great Bear Lake, N.W.T.	04-64-002 04-65-002



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SABLE ISLAND TO GRAND BANKS

September 1 to September 12, 1965

No. 2

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SABLE ISLAND TO GRAND BANKS

September 1 - September 12, 1965

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DEPARTMENT OF ENERGY, MINES AND RESOURCES

SABLE ISLAND to GRAND BANKS

Ship:	CNAV "Sackville"
Local cruise designation:	BIO-29-65
Cruise period:	September 1 - September 12, 1965
Scientist-in-Charge:	W. B. Bailey
Observers:	E. Doe C. D. Maunsell R. R. Weiler

MARINE SCIENCES BRANCH

Bedford Institute of Oceanography, Dartmouth, N.S.

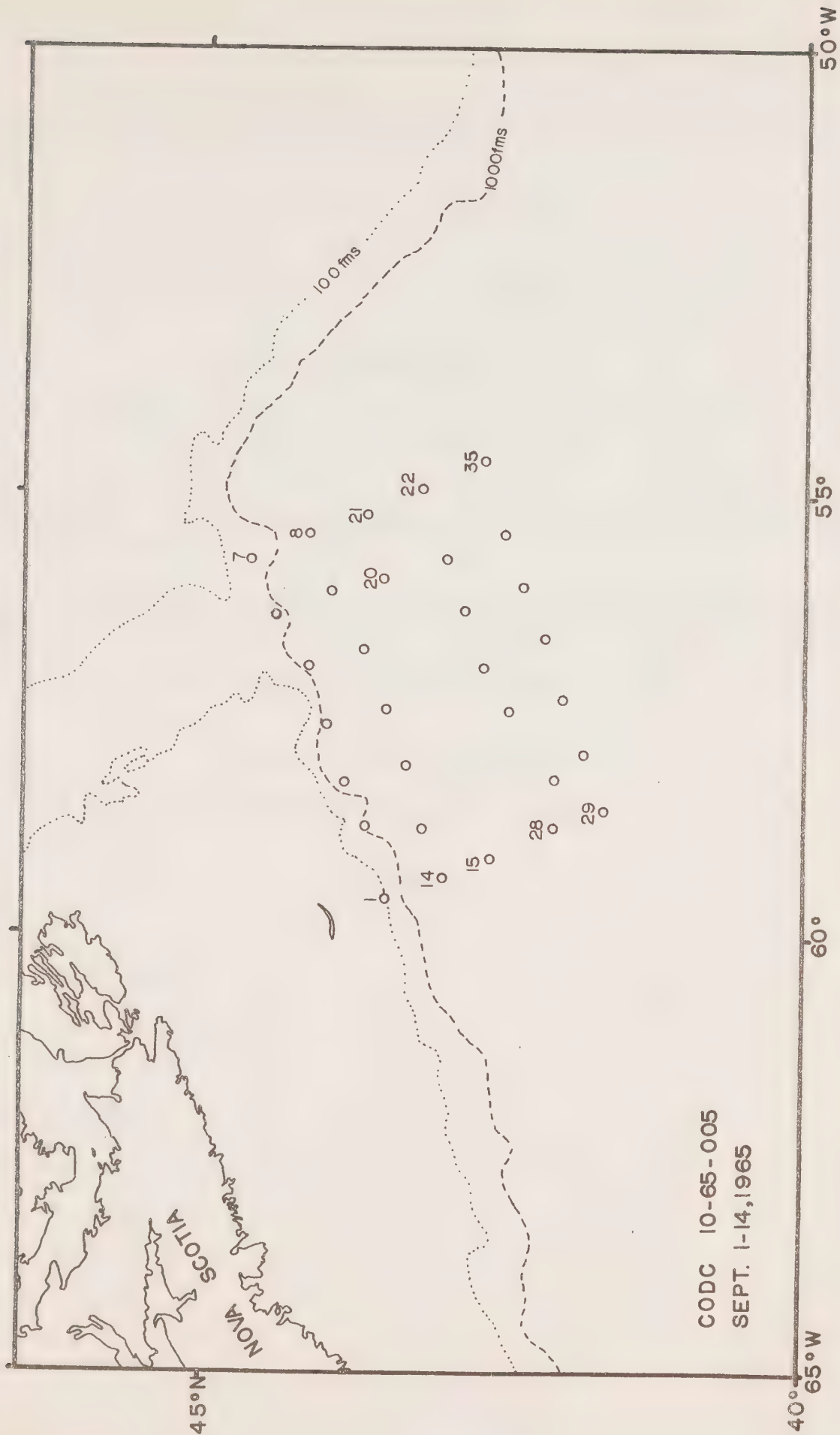
SECTION I

Description of data collection procedures



"SACKVILLE"

Fisheries Research Board



CODC 10-65-005
SEPT. 1-14, 1965

INTRODUCTION

The purpose of this cruise was to collect oceanographic data for studies of the ocean circulation in the area between Sable Island and the Grand Banks.

EXTRACT OF CRUISE LOG

Depart Halifax, N.S.

September 1, 1965

Arrive Halifax, N.S.

September 12, 1965

OBSERVATIONAL PROCEDURES

A total of 31 oceanographic stations was occupied using Knudsen water bottles with both protected and unprotected thermometers.

Surface temperatures were taken at each station in a metal bucket to 0.1°C and a thermistor was towed between stations. Surface salinity samples were also taken with a bucket.

Salinities were determined at the Bedford Institute of Oceanography using either the NIO conductive salinometer No. 14 or the Auto-Lab inductive salinometer.

Weather was observed at each station by the ship's officers.

BATHY THERMOGRAPH DATA

A total of 100 bathythermograph lowerings was taken.

PERSONNEL

At Sea:

W. B. Bailey
E. Doe
C. D. Maunsell
R. R. Weiler

Scientist in Charge

DATA ANALYSES

Compilation of Data:

R. R. Weiler

Salinity Determinations:

W. Young

SECTION II

Description of the machine-generated data record

INTRODUCTION

This section applies to the machine processing phase of the data reduction and computation.

The oceanographic data previously recorded on CODC data summary forms, a sample of which is shown on the next page, are transferred to punch-cards for subsequent electronic data processing on an IBM 1620 computer, using CODC's OCEANS II program. In addition to computing routine derived quantities, the program carries out unit and format conversions, range checks, plausibility tests, internal editing, and if required, interpolation at standard oceanographic depths. When interpolations are carried out, additional derived values are computed.

After the data have been processed, the data record is prepared using an IBM 1401 computer configuration with the OCEAN REPORT III program, which provides for pre-edited high speed print-out on continuous direct-image masters. These masters subsequently yield the required volume of copies for distribution.

Provision has been made to enter an **"estimate of precision"** for each observed variable selected for interpolation at standard oceanographic depths. The precision depends on the instrument and/or technique used to determine the variable. A standard precision stated as a **standard deviation (σ)** can be determined for each instrument or technique under routine field conditions by making duplicate determinations of the variables for a homogeneous sample of sea water. These standard deviations are given for each cruise under **"GENERAL INFORMATION"** in section III of the data record.

The **measurement error estimate** of a specific observation in this data record, is stated as a multiple of the standard deviation derived as above, and entered in a column immediately to the right of the reported variable. In order to distinguish it from an additional decimal digit, the measurement error estimate is recorded alphabetically, (i.e., $1\sigma = A$, $2\sigma = B$, etc.; in this data record **"A"** is suppressed).

An option is provided with respect to the measurement of the salinity variable. If observed to three decimal digits, the last digit takes the place of the measurement error estimate.

In the past, a number of methods for both manual and machine interpolation have been developed. Studies and comparisons of the several methods have shown that no single method is universally acceptable. The manual methods are the most elaborate and flexible, but often require subjective decisions. In machine interpolation, all the present methods fail to yield acceptable results under some circumstances. Hence, it is considered necessary to qualify interpolated values by stating an **"interpolation error estimate"** derived from the particular interpolation formula used. There are two purposes in stating the error estimates; **first**, to give an indication of the quality of the interpolated data; **second**, to allow the oceanographer to redesign his observational procedures in order to reduce interpolation errors in future observations.

The interpolation scheme chosen for the OCEANS II program consists of a combination of two 3-point interpolations using the Lagrangian interpolation polynomial, as recommended by Rattray (1962). A parabola is fitted through three values of a given variable (T , S , O_2) considered as a function of depth. The two interpolation parabolas require a total of four points (observed depths). The middle points are common to both parabolas. The average of the two values obtained from the parabolas at standard depth is taken as the interpolated value, and a function of their difference as an estimate of the interpolation error.

This function combined with the **"measurement error estimate"** comprises the **"combined measurement and interpolation error estimate"**. It is expressed as a multiple of the standard deviation of measurement (σ) under normal routine field conditions by:

CANADIAN OCEANOGRAPHIC DATA CENTRE

1 IDENT. CODE		2 LATITUDE (N=+)		3 LONGITUDE (W=+)		4 DATE		5 TIME		6 DEPTH		7 NO. DEPTHS OBS'D.		8 VESSEL																															
COUNTRY	INST.	DEG.	MIN.	DEG.	MIN.	YEAR	MONTH	DAY	HOURS	MIN.	TO BOTTOM		ENTERED BY	CHECKED BY																															
1	8																																												
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15																															
10 WATER		11 WAVES I		12 WAVES II		13 WIND		14 BAROMETER		15 AIR TEMP.		16 WET BULB		17 W.W. CODE		18 CLOUD		19 HOURS AFTER H.W.		20 UNASSIGNED		21 CRUISE REFERENCE NUMBER		22 CONSEC. NUMBER		23 OBSERVATIONS																			
COLOUR TRANS.		Dw Dp Pw Hw		Dw Dp Pw Hw		DIR.		1		10		1		10		1		10		1		10		1		10																			
35	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	
6 TIME		7 DEPTH OF SAMPLE		8 TEMPERATURE		9 SALINITY		10 OXYGEN		13 PO ₄ - P		14 TOTAL - P		15 NO ₂ - N		16 NO ₃ - N		17 SiO ₂ - Si		18 P.H.		CARD TYPE																							
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$$\frac{\sigma_i}{\sigma} = \left\{ \frac{(\Delta V_i)^2}{\sigma^2} + \sum_{n=j-2}^{j+1} (\gamma_n)^2 \left(\frac{\sigma_n}{\sigma} \right)^2 \right\}^{1/2}, \text{ where}$$

σ = Standard deviation of the combined error estimates at standard oceanographic depth,

ΔV_i = the interpolation error estimate of variable "V" at standard oceanographic depth = $^{1/3} (V_{i_1} - V_{i_2})$

γ = Interpolation polynomial coefficient.

Z_j = Observed depth.

Z_i = Standard oceanographic depth, such that: $Z_{j-2} < Z_{j-1} < Z_i < Z_j < Z_{j+1}$

The integral part of the fraction $\frac{\sigma_i}{\sigma}$, if ≥ 2 , is reported in this Data Record following the interpolated variable. It represents the combined measurement and interpolation error estimate. In order to distinguish it from an additional decimal digit, it is recorded alphabetically (e.g.: 2 as "B", 3 as "C", etc.).

With respect to the interpolated value of the salinity variable if reported to three decimal digits, the interpolation error estimate is given only when $\frac{\sigma_i}{\sigma} \geq 2$ (the salinity is then recorded to two decimal places). If less than 2, the mean obtained from the two interpolation parabolas is reported to three decimal places.

EXPLANATION OF DATA RECORD HEADINGS

MASTER HEADINGS

(1) C-REF-NO	(6) YR	(11) DEPTH	(16) WAVES 1	(21) AIR T	(26) VIS
(2) CONS. NO	(7) MONTH	(12) MXSAMPD	(17) WAVES 2	(22) WET B	(27) STN
(3) LAT	(8) DAY	(13) NO. DPTH	(18) WND-DIR	(23) ww-CODE	
(4) LON	(9) HR	(14) W-COLOR	(19) WND-FCE	(24) CLD-TPE	
(5) MARSD SQ	(10) C/I	(15) W-TRNSP	(20) BARO	(25) CLD-AMT	(28) HW

(1) CRUISE REFER-
ENCE NUMBER:

Assigned by the Institute. Commences with 001 at the beginning of each year (effective Jan. 1, 1963). Prior to that date the CRN was a number designated by CODC.

(2) CONSECUTIVE
NUMBER:

Indicates the chronological order in which the stations were occupied.

(3) LATITUDE:

Indicate the position of the platform at the time of observation.

(4) LONGITUDE:

(5) MARSDEN SQUARE: Designates the geographic area code of the observation (see Marsden square chart).

(6) YEAR:

(7) MONTH:

(8) DAY:

(9) HOUR:

The time (Greenwich Mean Time) at which the surface environmental data were recorded. It is reported to tenths of hours (Table 1).
If an "X" precedes the value for HOUR, (prior to Jan. 1, 1963) it indicates that the reported time is doubtful.

(10) COUNTRY/
INSTITUTE:

The International Geophysical Year (IGY) Country Code/Institute Code - see Table 11.

(11) DEPTH:

The sounding reported in metres. If corrected, this is stated in the "GENERAL INFORMATION" chapter of section III. Charted depths are preceded by the letter "C".

(12) MAXIMUM

SAMPLING DEPTH: A code to indicate the deepest sampling depth (used for high speed sorting).

00 m - 50 m = 00

51 m - 150 m = 01

151 m - 250 m = 02

etc.

- (13) NUMBER OF DEPTHS: The number of levels observed (this is entered to initiate a computer safety check, guarding against the loss of punch-cards).
- (14) WATER COLOUR: A code based on the percentage of yellow (see table 2 and Note under FIELD "15" below).
- (15) WATER TRANSPARENCY: The depth in metres at which a Secchi disc (white disc, 30 cm. in diameter) just disappears from view, or the optical density expressed in percentage;
- NOTE: The "GENERAL INFORMATION" chapter in section III of the data record will state which method was used.
- (16) WAVES 1
($d_W d_W P_W H_W$ -code): The direction, period and height of the **wind-propagated** wave system. (See Tables 3, 4 and 5). Ref: World Meteorological Organization Codes 0885, 3155, 1555.
- (17) WAVES 2
($d_W d_W P_W H_W$ -code): The direction, period and height of the predominant **non-wind-propagated** wave system. (See Tables 3, 4 and 5). Ref: World Meteorological Organization Codes 0885, 3155, 1555.
- (18) WIND DIRECTION: The true direction to the nearest 10 degrees from which the wind is blowing (wind direction 990 means:—wind variable or direction unknown).
- (19) WIND FORCE
(WND-FCE): Beaufort notation (See Table 6).
- WIND SPEED
(WND-SPD): Anemometer reading reported in metres per second. Instrument height reported in "GENERAL INFORMATION" chapter of section III.
- (20) BAROMETER: The barometric pressure reported in millibars; the "GENERAL INFORMATION" chapter in Section III of the data record will state the type of instrument used.
- (21) AIR TEMPERATURE: In degrees Celsius.
- (22) WET BULB: In degrees Celsius.
- (23) ww CODE: Present Weather Code (See Table 7). Ref: WMO Code 4677
- (24) CLOUD TYPE: The type of predominating clouds (See Table 8). Ref: WMO Code 0500.
- (25) CLOUD AMOUNT: The sky coverage in eighths (See Table 9) Ref: WMO Code 2700
- (26) VISIBILITY: Visibility at the surface (See Table 10). Ref: WMO Code 4300.
- (27) STATION: A station reference number, assigned by the institute prior to, or during the survey.
- (28) HOURS AFTER HIGH WATER: Indicates the state of the tide for nearshore observations.

OBSERVED DATA HEADINGS

(1) GMT	(2) DEPTH	(3) TEMP	(4) SAL	(5) OXYGEN	(6) SGMT
(7) SOUND	(8) PO_4	(9) -P-	(10) NO_2	(11) NO_3	(12) SiO_2
				(13) pH.	

NOTE: Headings (1) to (7) will always be present. Headings (8) to (13) appear only when one or more additional chemical entries were made.

(1) G.M.T.: The Greenwich Mean Time of (in-situ) thermometer inversion and sea water sample collection.

When a multiple cast was initiated prior to and continued after midnight, the times indicated are uninterrupted by the change of day and appear beyond 24.0 hours. This will be accompanied by a statement: "MULTIPLE CAST CONTINUED NEXT DAY", which is printed following the last level of observed values.

(2) DEPTH: The depth in metres at the reversal time of deepest cast.

(3) TEMPERATURE: Temperatures from deepsea reversing thermometers, read to 0.01°C . Surface temperature measurement procedures are described in the chapter "OBSERVATION PROCEDURES" of section I, and/or the "GENERAL INFORMATION" chapter of section III. An alphabetical character following the temperature value represents the measurement error estimate referred to in the INTRODUCTION to this section.

(4) SALINITY: Salinity as defined by: $S = 0.03 + 1.805 \text{ Cl}\%$, reported in:
 a. 1/100 parts per 1000, or
 b. 1/1000 parts per 1000.

In case a: an alphabetical character following the value is the measurement error estimate as referred to under (3).

In case b: no error estimate indication is provided for, but an additional decimal digit takes its place.

(5) OXYGEN: The concentration of dissolved oxygen expressed in millilitres per litre to 2 decimal places. An alphabetical character following the value is the measurement error estimate as referred to under (3).

(6) SIGMA-T: The specific gravity anomaly as defined by: $(\text{Specific gravity} - 1) \times 10^3$ (e.g., σ_t reported as 2456, reads 24.56, and corresponds to a specific gravity of 1.02456).

(7) SOUND: The sound velocity is reported in m/sec. to 1 decimal place (e.g., 1437.9 m/sec.). The computation is carried out using Wilson's formula (1960), expressed in terms of temperature, salinity and total pressure.

(8) PO ₄	Phosphate-Phosphorus reported to hundredths of microgram-atoms per litre.
(9) -P-	Total Phosphorus reported to hundredths of microgram-atoms per litre.
(10) NO ₂	Nitrite-Nitrogen reported to hundredths of microgram-atoms per litre — No dissolved nitrogen included —
(11) NO ₃	Nitrate-Nitrogen reported to tenths of microgram-atoms per litre.
(12) SiO ₂	Silicate-Silicon reported in whole microgram-atoms per litre.
(13) pH	The pH value.

NOTE: "TRC" (trace) is reported when a chemical entry has a value less than the standard deviation of measurement for that particular variable.

INTERPOLATED DATA HEADINGS

(1) DEPTH	(2) TEMP	(3) SAL	(4) OXYGEN	(5) SGMT	(6) SOUND
(7) DELTA-D	(8) POT-EN	(9) SVA.			

- (1) DEPTH: Standard Oceanographic Depth in whole metres, as well as additional depths: 125, 175, 225, 3500, 4500, 5500, 6500, 7500, 8500, 9500.
- (2) TEMPERATURE: Interpolated value at standard depth, followed by the combined measurement and interpolation error estimate (see "INTRODUCTION" to section II of the data record).
- (3) SALINITY:
- A. The reported salinity values are measured to three decimal places.
 - (i) the interpolation error estimate is less than twice the standard deviation of measurement
 - the interpolated value is reported to three decimal places (e.g., 30.139).
 - (ii) the interpolation error estimate is equal to or greater than twice the standard deviation of measurement.
 - the interpolated value is reported to two decimal places, and followed by the interpolation error estimate (e.g., 29.23 C).
 - B. The reported salinity values are measured to two decimal places and followed by the measurement error estimate.
 - the interpolated value is reported to two decimal places, and followed by the combined measurement and interpolation error estimate (e.g., 30.59 B).
- (4) OXYGEN: Interpolated value at standard depth, followed by the combined measurement and interpolation error estimate (see "Introduction" to section II of the data record).

- (5) SIGMA-T: Computed from temperature and salinity values at standard oceanographic depth.
- (6) SOUND VELOCITY: Computed from temperature, salinity and total pressure values at standard oceanographic depth, using Wilson's formula (1960).
- (7) DELTA-D: The geo-potential anomaly as defined by:
- $$\Delta D = \int_0^P \delta dp$$
- ΔD is expressed in dynamic metres (10^5 ergs/gram) and recorded to three decimal places (e.g., 2.345 dyn. metres).
- (8) POTENTIAL ENERGY ANOMALY: The Potential energy anomaly χ as defined by:
- $$\chi = 1/g \int_0^P p \delta dp = \int_0^Z \rho p \delta dz$$
- χ is expressed in units of 10^8 ergs/cm² and recorded to two decimal places (e.g., 116.44).
- (9) SPECIFIC VOLUME ANOMALY: The specific volume anomaly as defined by:
- $$\delta = \alpha - \alpha_{35.0.P}$$
- δ is expressed in ml/gr, and conventionally reported as $10^5 \delta$, to one decimal place (i.e., δ reported as 1234, reads 123.4, and corresponds to a specific volume anomaly of 0.001234 ml/gr.).

SPECIAL CHARACTERS

‡ (Record mark): is used to indicate inconsistencies which are printed in an area below the "Observed Data". A corresponding record mark at the extreme left hand side indicates the level at which the inconsistency occurs

* (Asterisk): this character may occur in the **interpolated** portion of the data record. It is printed at the extreme left hand side of the page, when three or more standard depth levels fall within any one **observed depth interval**. The **third**, and all consequent levels are preceded by the asterisk to indicate that more than **two** machine interpolations were carried out, utilizing the same set of interpolation parabolas. The asterisk will also appear when the last standard depth is an extrapolation and there are at least two interpolations between the last two observed depths.

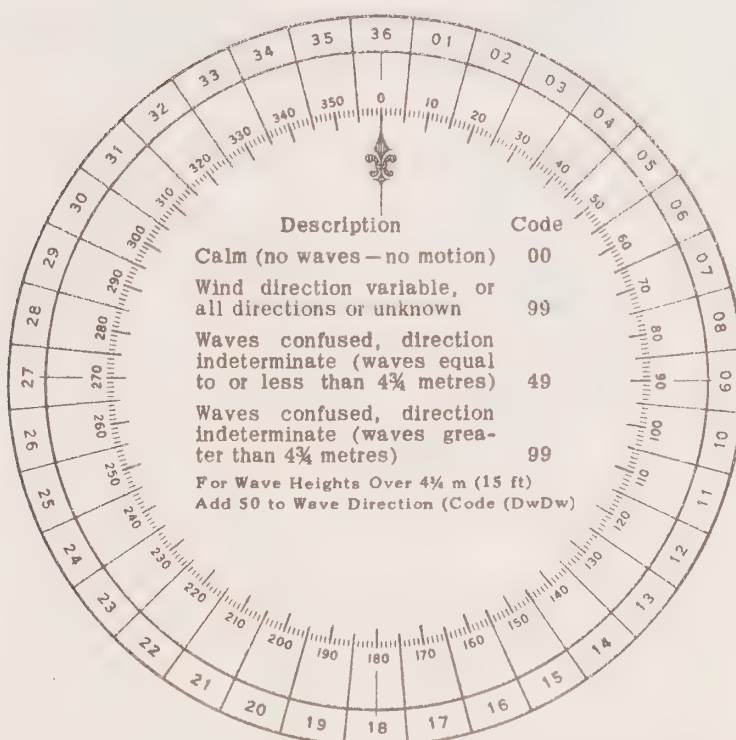
Table 1
CONVERSION
MINUTES TO $\frac{1}{10}$ HRS.

Minutes	Tenths Hrs.
00-03	0
04-08	1
09-15	2
16-20	3
21-27	4
28-32	5
33-39	6
40-44	7
45-51	8
52-56	9
57-59	0 (next HR.)

Table 2
WATER COLOR CODE
Based on Percentage Yellow

Code;	Description
00	Deep Blue
10	Blue
20	Greenish Blue
30	Bluish Green
40	Green
50	Light Green
60	Yellowish Green
70	Yellow Green
80	Green Yellow
90	Greenish Yellow
99	Yellow

Table 3. DIRECTION CODE (dd)



NOTE:

Always use the true direction from which the wind is blowing, or the direction from which Waves I (sea), or Waves II (swell) come.

Table 4. PERIOD OF THE WAVES (P_w)
(Measure to the Nearest Second)

Code:	Period in Seconds:	Code:	Period in Seconds:
2	5 sec. or less	8	16 or 17 sec.
3	6 or 7 sec.	9	18 or 19 sec.
4	8 or 9 sec.	0	20 or 21 sec.
5	10 or 11 sec.	1	Over 21 sec.
6	12 or 13 sec.	X	Calm, or period not determined
7	14 or 15 sec.		

Table 5. HEIGHT OF THE WAVES (H_w)

- The average value of the wave height (vertical distance between trough and crest) is reported, as obtained from the larger well formed waves of the wave system being observed.
- Each code figure provides for reporting a range of heights. For example: 1 = $\frac{1}{4}$ m (1 ft) to $\frac{3}{4}$ m ($2\frac{1}{2}$ ft); 5 = $2\frac{1}{4}$ m (7 ft) to $2\frac{3}{4}$ m (9 ft); 9 = $4\frac{1}{4}$ m ($13\frac{1}{2}$ ft) to $4\frac{3}{4}$ m (15 ft), etc.
- If a wave height comes exactly midway between the heights corresponding to two code figures, the lower code figure is reported; e.g. a height of $2\frac{3}{4}$ m is reported by code figure 5.

Code			Code
0	Less than ¼ m (1 ft)	Add 50 to Dw Dw	0 5 m (16 ft)
1	½ m (1½ ft)		1 5½ m (17½ ft)
2	1 m (3 ft)		2 6 m (19 ft)
3	1½ m (5 ft)		3 6½ m (21 ft)
4	2 m (6½ ft)		4 7 m (22½ ft)
5	2½ m (8 ft)		5 7½ m (24 ft)
6	3 m (9½ ft)		6 8 m (25½ ft)
7	3½ m (11 ft)		7 8½ m (27 ft)
8	4 m (13 ft)		8 9 m (29 ft)
9	4½ m (14 ft)		9 9½ m (30½ ft) or more
x	Height not determined		

Table 6. WIND FORCE CODE

The Beaufort force of the wind is estimated from the appearance of the sea surface, according to the table below. This table is only intended as a guide to show roughly what may be expected on the open sea, remote from land. Factors which must be taken into account are the "lag" effect between the wind increasing and the sea getting up; and the influence of "fetch", depth, swell, heavy rain and tide effect on the appearance of the sea. Estimation of the wind force by this method becomes unreliable in shallow water or when close inshore, owing to the tidal effect and the shelter provided by the land.

Code	Appearance of sea if fetch and duration of the blow have been sufficient to develop the sea fully	Description
00	Sea like a mirror	Calm
01	Ripples with the appearance of scales are formed, but without foam crests.	Light Air
02	Small wavelets; crests have a glassy appearance and do not break.	Light Breeze
03	Large wavelets; crests begin to break; foam of glassy appearance; perhaps scattered white horses.	Gentle Breeze
04	Small waves, becoming longer; fairly frequent white horses.	Moderate breeze
05	Moderate waves; many white horses are formed (chance of some spray)	Fresh Breeze
06	Large waves; white foam crests everywhere (probably some spray)	Strong Breeze
07	Sea heaps up and white foam from breaking waves begins to be blown in streaks along the direction of the wind.	Near Gale
08	Moderately high waves; edges of crests begin to break into the spindrift; foam is blown in well-marked streaks along the direction of the wind.	Gale
09	High waves; dense streaks of foam along wind; crests begin to topple, tumble and roll over; spray may affect visibility.	Strong Gale
10	Very high waves with long overhanging crests; foam in great patches blown in dense white streaks along wind; sea surface takes a white appearance; tumbling becomes heavy and shock-like; visibility affected.	Storm
11	Exceptionally high waves (medium sized ships may be lost to view behind waves); sea covered with long white patches of foam lying along the wind; everywhere edges of crests are blown into froth; visibility affected.	Violent Storm
12	Air is filled with foam and spray; sea completely white with driving spray; visibility seriously affected.	Hurricane

Table 7. PRESENT WEATHER

W.W. CODE

NO PRECIPITATION ON STATION AT TIME OF OBSERVATION

Code figure ww				
No meteors except photometeors	00	Cloud development not observed or not observable	characteristic change of the state of sky during the past hour	
	01	Clouds generally dissolving or becoming less developed		
	02	State of sky on the whole unchanged		
	03	Clouds generally forming or developing		
Haze, dust, sand or smoke	04	Visibility reduced by smoke, e.g. veldt or forest fires, industrial smoke or volcanic ashes		
	05	Haze		
	06	Widespread dust in suspension in the air, not raised by wind at or near the station at the time of observation		
	07	Dust or sand raised by wind at or near the station at the time of observation, but no well developed dust whirl(s) or sand whirl(s), and no duststorm or sandstorm seen		
	08	Well developed dust whirl(s) or sand whirl(s) seen at or near the station during the preceding hour or at the time of observation, but no dustorm or sandstorm		
	09	Duststorm or sandstorm within sight at the time of observation, or at the station during the preceding hour		
	10	Mist		
	11	Patches of		shallow fog or ice fog at the station, whether on land or sea, not deeper than about 2 metres on land or 10 metres at sea
	12	More of less continuous		
	13	Lightning visible, no thunder heard		
	14	Precipitation within sight, not reaching the ground or the surface of the sea		
	15	Precipitation within sight, reaching the ground or the surface of the sea, but distant (i.e. estimated to be more than 5 km) from the station		
	16	Precipitation within sight, reaching the ground or the surface of the sea, near to, but not at the station		
	17	Thunderstorm, but no precepitation at the time of observation		
	18	Squalls		at or within sight of the station during the preceding hour or at the time of observation
	19	Funnel clouds		
ww = 20 - 29		Precipitation, fog, ice fog or thunderstorm at the station during the preceding hour but not at the time of observation		
		20		Drizzle (not freezing) or snow grains
		21	Rain (not freezing)	
		22	Snow	
		23	Rain and snow or ice pellets, type (a)	
		24	Freezing drizzle or freezing rain	
		25	Shower(s) of rain	
		26	Shower(s) of snow, or of rain and snow	
		27	Shower(s) of hail, or of rain and hail	
		28	Fog or ice fog	
		29	Thunderstorm (with or without precipitation)	
ww = 30 - 39		Duststorm, sandstorm, drifting or blowing snow		
		30	Slight or moderate dust-storm or sand-storm	-has decreased during the preceding hour
		31		-no appreciable change during the preceding hour
		32		-has begun or has increased during the preceding hour
		33	Severe dust-storm or sand-storm	-has decreased during the preceding hour
		34		-no appreciable change during the preceding hour
		35		-has begun or has increased during the preceding hour
		36	Slight or moderate blowing snow	generally low (below eye level)
		37	Heavy drifting snow	
		38	Slight or moderate blowing snow	generally high (above eye level)
		39	Heavy blowing snow	
ww = 40 - 49		Fog or ice fog at the time of observation		
		40	Fog or ice fog at a distance at the time of observation, but not at the station during the preceding hour, the fog or ice fog extending to a level above that of the observer	
		41	Fog or ice fog in patches	
		42	Fog or ice fog, sky visible	has become thinner during the preceding hour
		43	Fog or ice fog, sky invisible	
		44	Fog or ice fog, sky visible	no appreciable change during the preceding hour
		45	Fog or ice fog, sky invisible	
		46	Fog or ice fog, sky visible	has begun or has become thicker during the preceding hour
		47	Fog or ice fog, sky invisible	
		48	Fog, depositing rime, sky visible	
		49	Fog, depositing rime, sky invisible	

NO PRECIPITATION ON STATION AT TIME OF OBSERVATION

PRECIPITATION ON STATION AT TIME OF OBSERVATION

ww = 50 - 59 Drizzle		ww = 80 - 99 Showery precipitation, or precipitation with current or recent thunderstorm	
50	Drizzle, not freezing, intermittent	}	slight at time of observation
51	Drizzle, not freezing, continuous		
52	Drizzle, not freezing, intermittent	}	moderate at time of observation
53	Drizzle, not freezing, continuous		
54	Drizzle, not freezing, intermittent	}	heavy (dense) at time of observation
55	Drizzle, not freezing, continuous		
56	Drizzle, freezing, slight		
57	Drizzle, freezing, moderate or heavy (dense)		
58	Drizzle and rain, slight		
59	Drizzle and rain, moderate or heavy		
ww = 60 - 69 Rain			
60	Rain, not freezing, intermittent	}	slight at time of observation
61	Rain, not freezing, continuous		
62	Rain, not freezing, intermittent	}	moderate at time of observation
63	Rain, not freezing, continuous		
64	Rain, not freezing, intermittent	}	heavy at time of observation
65	Rain, not freezing, continuous		
66	Rain, freezing, slight		
67	Rain, freezing, moderate or heavy		
68	Rain or drizzle and snow, slight		
69	Rain or drizzle and snow, moderate or heavy		
70 - 79 Solid precipitation not in showers			
ww			
70	Intermittent fall of snow flakes	}	slight at time of observation
71	Continuous fall of snow flakes		
72	Intermittent fall of snow flakes	}	moderate at time of observation
73	Continuous fall of snow flakes		
74	Intermittent fall of snow flakes	}	heavy at time of observation
75	Continuous fall of snow flakes		
76	Ice prisms (with or without fog)		
77	Snow grains (with or without fog)		
78	Isolated starlike snow crystals (with or without fog)		
79	Ice pellets, type (a)		
80	Rain shower(s), slight		
81	Rain shower(s), moderate or heavy		
82	Rain shower(s), violent		
83	Shower(s) of rain and snow mixed, slight		
84	Shower(s) of rain and snow mixed, moderate or heavy		
85	Snow shower(s), slight		
86	Snow shower(s), moderate or heavy		
87	Shower(s) of snow pellets or ice pellets, type (b), with or without rain	}	- slight
88	or rain and snow mixed		- moderate or heavy
89	Shower(s) of hail, with or without rain or rain and snow mixed, not associated with thunder	}	- slight
90			- moderate or heavy
91	Slight rain at time of observation		
92	Moderate or heavy rain at time of observation		
93	Slight snow, or rain and snow mixed or hail at time of observation		thunderstorm during the preceding hour but not at time of observation
94	Moderate or heavy snow, or rain and snow mixed or hail at time of observation		
95	Thunderstorm, slight or moderate, without hail, but with rain and/or snow at time of observation		
96	Thunderstorm, slight or moderate, with hail at time of observation		
97	Thunderstorm, heavy, without hail, but with rain and/or snow at time of observation		thunderstorm at time of observation
98	Thunderstorm, combined with duststorm or sandstorm at time of observation		
99	Thunderstorm, heavy, with hail at time of observation		

PRECIPITATION ON STATION AT TIME OF OBSERVATION

Table 8. CLOUD TYPE CODE

Code	Cloud Type	Code	Cloud Type
0	Cirrus Ci	5	Nimbostratus Ns
1	Cirrocumulus Cc	6	Stratocumulus Sc
2	Cirrostratus Cs	7	Stratus St
3	Alto cumulus Ac	8	Cumulus Cu
4	Altostratus As	9	Cumulonimbus Cb
X	Cloud not visible owing to darkness, fog, dust storm, sand storm, or other analogous phenomena		

Table 9. CLOUD AMOUNT CODE

Code	Cloud Cover	Code	Cloud Cover
0	0	6	6 oktas
1	1 okta or less, but not zero	7	7 oktas or more, but not 8 oktas
2	2 oktas	8	8 oktas
3	3 oktas	9	Sky obscured, or cloud amount cannot be estimated
4	4 oktas		
5	5 oktas		

Note: 1 okta = $\frac{1}{8}$ of the sky covered

Table 10. VISIBILITY

Code	Estimate of hor. Visibility	
0	Less than 50 metres	(less than 55 yards)
1	50-200 metres	(approx. 55-220 yards)
2	200-500 metres	(approx. 220-550 yards)
3	500-1,000 metres	(approx. 550 yards- $\frac{1}{2}$ n.m.)
4	1-2 km	(approx. $\frac{3}{8}$ -1 n.m.)
5	2-4 km	(approx. 1-2 n.m.)
6	4-10 km	(approx. 2-6 n.m.)
7	10-20 km	(approx. 6-12 n.m.)
8	20-50 km	(approx. 12-30 n.m.)
9	50 km or more	(30 n.m. or more)

Note: n.m. = nautical mile

TABLE 11. INSTITUTE CODE

Code	Institute
01	Atlantic Oceanographic Group
02	Pacific Oceanographic Group
03	Biological Station, St. Andrews, N.B.
04	Arctic Biological Station, Ste. Anne de Bellevue, P.Q.
05	Biological Station, St. John's Nfld.
06	Station de Biologie Marine, Grande Riviere, P.Q.
07	Marine Sciences Branch, Central Region
08	Naval Research Establishment, Dartmouth, N.S.
09	Pacific Naval Laboratory, Esquimalt, B.C.
10	Bedford Institute of Oceanography, (MBS, Atlantic Region)
11	Polar Continental Shelf Project
12	Great Lakes Institute
13	Institute of Oceanography, University of British Columbia
14	Institute of Oceanography, Dalhousie University
15	Marine Sciences Branch, Pacific Region
16	Department of Transport
17	Marine Sciences Centre, McGill University
18	RCN East Coast
19	RCN West Coast
20	Ontario Water Resources Commission
21	Dept. of National Health and Welfare
22	Inland Waters Branch, Dept. of Energy, Mines and Resources.

SECTION III

Serial oceanographic data

GENERAL INFORMATION

<u>Institute:</u>	Bedford Institute of Oceanography
<u>Observation platform:</u>	CNAV "Sackville"
<u>Vessel's cruising speed:</u>	11 knots
<u>Total number of stations occupied:</u>	31
<u>Anemometer height above sea level:</u>	11 metres
<u>Barometer readings:</u>	Aneroid barometer (corrected)
<u>Air temperature :</u>	Fixed thermometer
<u>Surface sea water temperature</u>	Bucket sample - deck thermometer

The following Standard Deviations were used to express both measurement and interpolation error estimates:

Temperature:	0.02
Salinity:	0.003

C-REF-NO 005	YR 1965	DEPTH 1523	WAVES 1 14X3	AIR T 16.6	VIS 7
CONS. NO 001	MONTH 9	MXSAMPD 08	WAVES 2 14X3	WET B	STN 001
LAT 43-315N	DAY 02	NO.DPTH 12	WND-DIR 140	WW-CODE 02	
LON 59-380W	HR 17.5	W-COLOR	WND-SPD 05	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1020.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
175	0000	161 B	31593		2313	15067
175	0010	1592	31547		2314	15062
175	0020	1492	31545		2335	15032
175	0049	0331	32944		2624	14620
175	0073	0238	33316		2662	14588
179	0098	0274	33625		2683	14612
179	0146	0411	34029		2703	14684
179	0193	0528				
179	0287	0486	34582		2738	14746
179	0383	0437	34667		2750	14743
179	0480	0418	34771		2761	14752
179	0773	0410	34886		2771	14799

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1610 B	31593		2313	15067	0000	00000	4748
0010	1592	31547		2314	15062	0048	00002	4746
0020	1492	31545		2335	15032	0094	00010	4543
0030	1100 I	3197 I		2444	14906	0135	00020	3506
0050	0318 B	3297 B		2627	14614	0188	00040	1761
0075	0238	33343		2664	14589	0228	00065	1412
0100	0279	33645		2685	14615	0261	00094	1218
0125	0347 B	3387 B		2697	14651	0290	00128	1108
0150	0423	34055		2703	14690	0317	00166	1049
0175	0490 B	3420 D		2708	14724	0343	00209	1013
0200	0531 B	3433 F		2713	14747	0368	00257	0971
0225	0535 G	3443 F		2720	14754	0392	00309	0902
*0250	0525 G	3451 E		2728	14755	0414	00362	0834
0300	0479	3460 B		2740	14745	0453	00472	0717
0400	0432	34686		2752	14744	0520	00710	0612
0500	0407 C	3477 D		2762	14751	0578	00975	0531
0600	0394 B	3483 C		2768	14763	0629	01263	0482
*0700	0398	3487 B		2771	14781	0677	01583	0466
*0800	0417	34890		2770	14806	0725	01954	0482

C-REF-NO 005	YR 1965	DEPTH 1014	WAVES 1 12X3	AIR T 17.7	VIS 7
CONS. NO 002	MONTH 9	MXSAMPD 10	WAVES 2 12X3	WET B	STN 002
LAT 43-390N	DAY 02	NO.DPTH 13	WND-DIR 120	WW-CODE 02	
LON 58-580W	HR 22.5	W-COLOR	WND-SPD 05	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1018.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
225	0000	153 B				
225	0010	1531	31337		2311	15041
225	0020	1276	31281		2359	14957
225	0030	0612	32365		2548	14726
225	0050	0215	33089		2645	14571
225	0075	0040	33241		2669	14499
225	0100	0344	33740		2686	14644
225	0125	0699	34473		2703	14804
225	0273	0607	34730		2735	14795
225	0371	0440	34646		2748	14742
225	0469	0430	34800		2762	14756
225	0763	0412	34892		2771	14798
225	0958	0399	34905		2773	14825

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1530 B	3122 I		2302	15037	0000	00000	4857
0010	1531	31337		2311	15041	0048	00002	4772
0020	1276	31281		2359	14957	0094	00009	4319
0030	0612	32365		2548	14726	0128	00018	2512
0050	0215	33089		2645	14571	0170	00034	1586
0075	0040	33241		2669	14499	0207	00057	1360
0100	0344	33740		2686	14644	0239	00086	1205
0125	0699	34473		2703	14804	0268	00118	1062
0150	0824 I	3467 I		2700	14859	0295	00157	1096
0175	0931 I	3491 I		2702	14906	0322	00203	1086
*0200	0961 I	3504 I		2707	14923	0349	00254	1047
*0225	0914 I	3504 I		2715	14910	0375	00310	0971
*0250	0790 I	3494 I		2726	14865	0398	00366	0867
0300	0557 D	3471 E		2739	14779	0438	00479	0732
0400	0429 C	3468 D		2752	14742	0506	00720	0610
0500	0428	3483 C		2764	14760	0563	00980	0513
0600	0421	3488 G		2769	14775	0612	01261	0474
*0700	0415	3490 D		2771	14789	0660	01577	0463
0800	0408	3495 I		2776	14803	0705	01925	0429

C-REF-NO 005	YR 1965	DEPTH 1773	WAVES 1 12X3	AIR T 16.6	VIS 7
CONS. NO 003	MONTH 9	MXSAMPD 13	WAVES 2 12X4	WET B	STN 003
LAT 43-490N	DAY 03	NO.DPTH 14	WND-DIR 120	WW-CODE 02	
LON 58-190W	HR 03.8	W-COLOR	WND-SPD 05	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1018.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
038	0000	163 B	31255		2283	15069
038	0008	1628	31243		2282	15070
038	0017	1627	31255		2283	15071
038	0026	1144	32493		2477	14928
038	0044	0270	32614		2603	14588
038	0066	0602	33443		2634	14742
038	0087	0293	33338		2659	14615
038	0131	0538	34113		2695	14735
038	0260	0450	34461		2733	14725
038	0344	0402	34608		2749	14721
038	0423	0429	34732		2756	14747
038	0684	0416 C	34878		2769	14787
038	0856	0405 C	34904		2773	14811
038	1303	0385	34898		2774	14877

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1630 B	31255		2283	15069	0000	00000	5038
0010	1649 G	3119 I		2274	15076	0051	00003	5127
0020	1491 I	3164 I		2343	15033	0099	00010	4469
0030	0900 I	3263 I		2529	14841	0135	00019	2697
0050	0317 I	3285 I		2618	14613	0181	00036	1848
0075	0490 I	3343 I		2647	14697	0224	00064	1579
0100	0310 I	3351 I		2671	14627	0261	00096	1344
0125	0473 I	3398 I		2692	14706	0292	00132	1158
0150	0562 I	3426 I		2704	14750	0320	00172	1052
0175	0575 I	3440 I		2713	14761	0346	00214	0963
*0200	0565 I	3449 I		2721	14763	0369	00259	0891
*0225	0532 I	3452 I		2727	14754	0391	00306	0834
*0250	0478 G	3449 I		2732	14735	0411	00356	0795
0300	0422 B	34536		2742	14721	0449	00462	0702
0400	0418 B	34699		2755	14738	0514	00693	0587
0500	0434 C	3480 C		2762	14762	0571	00954	0536
0600	0429 D	3486 D		2767	14778	0623	01249	0498
0700	0415 C	34882		2770	14789	0672	01577	0476
0800	0409 B	34899		2772	14803	0720	01944	0465
1000	0399 B	3493 C		2776	14833	0812	02798	0447
1200	0390	34921		2776	14862	0905	03845	0463

C-REF-NO 005	YR. 1965	DEPTH 2093	WAVES 1 10X2	AIR T 16.6	VIS 7
CONS. NO 004	MONTH 9	MXSAMPD 20	WAVES 2 10X3	WET B	STN 004
LAT 43-585N	DAY 03	NO.DPTH 16	WND-DIR 100	WW-CODE 02	
LON 57-400W	HR 08.8	W-COLOR	WND-SPD 01	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1019.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
088	0000	159 B	30885		2263	15052
088	0010	1584	30841		2261	15051
088	0020	1012	31377		2413	14865
088	0030	0276	32005		2554	14580
088	0050	0126	32488		2603	14524
088	0075	0076	32832		2634	14510
088	0099	0087	33153		2659	14523
088	0149	0326	33838		2696	14646
088	0198	0423	34184		2714	14700
088	0296	0445	34458		2733	14729
088	0394	0420	34683		2753	14738
088	0492	0408	34765		2761	14750
088	0785	0414	34891		2771	14803
088	0981	0406	34903		2772	14832
088	1471	0373	34899		2776	14900
088	1962	0364	34923		2778	14980

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1590 B	30885		2263	15052	0000	00000	5224
0010	1584	30841		2261	15051	0053	00003	5246
0020	1012	31377		2413	14865	0098	00009	3799
0030	0276	32005		2554	14580	0129	00017	2453
0050	0126	32488		2603	14523	0174	00035	1982
0075	0076	32832		2634	14510	0220	00064	1691
0100	0091	33168		2660	14525	0260	00099	1444
0125	0202 I	3353 E		2682	14584	0294	00138	1246
0150	0329	33847		2696	14647	0323	00179	1113
0175	0389 B	3405 C		2706	14680	0350	00224	1021
0200	0425	34193		2714	14701	0375	00272	0953
0225	0443 C	3429 F		2720	14714	0398	00323	0901
*0250	0452 D	3437 G		2725	14723	0421	00377	0856
0300	0444	34469		2734	14729	0462	00493	0776
0400	0419	34690		2754	14738	0531	00737	0593
0500	0408	34770		2762	14751	0588	00998	0531
0600	0408 B	34829		2766	14769	0640	01291	0497
*0700	0410 B	34870		2769	14787	0689	01620	0479
0800	0414	34893		2771	14805	0737	01993	0476
1000	0405	34903		2773	14835	0834	02886	0477

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
1200	0391	34902		2774	14862	0931	03983	0479
1500	0378 B	3491 C		2776	14908	1077	06019	0483
2000	0363	34924		2779	14986	1325	10509	0495

C-REF-NO 005	YR 1965	DEPTH 2176	WAVES 1 10X2	AIR T 14.9	VIS 7
CONS. NO 005	MONTH 9	MXSAMPD 18	WAVES 2 10X4	WET B	STN 005
LAT 44-080N	DAY 03	NO.DPTH 17	WND-DIR 100	WW-CODE 02	
LON 57-000W	HR 13.2	W-COLOR	WND-SPD 01	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1019.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
132	0000	156 B	31439		2312	15049
132	0009	1559	31428		2312	15050
132	0018	0804	31762		2475	14792
132	0027	0334	32245		2568	14608
132	0046	0098	32724		2624	14514
132	0069	0050	32968		2646	14499
132	0092	0130	33255		2665	14543
132	0137	0465	34164		2707	14707
132	0182	0503	34434		2724	14734
132	0228	0470	34537		2736	14729
132	0275	0429	34615		2747	14721
132	0366	0418	34740		2758	14733
132	0454	0413	34799		2763	14746
132	0714	0410	34877		2770	14789
132	0889	0402	34899		2773	14815
132	1339	0378	34902		2775	14880
132	1788	0368	34913		2777	14952

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1560 B	31439		2312	15049	0000	00000	4755
0010	1487 I	31453		2329	15028	0047	00002	4597
0020	0677	3187 C		2501	14744	0085	00008	2960
0030	0257 I	3235 D		2583	14576	0111	00014	2174
0050	0076 B	3278 C		2630	14505	0150	00030	1732
0075	0062	33035		2651	14506	0191	00056	1529
0100	0192 G	3342 I		2674	14574	0227	00088	1318
0125	0379 I	3393 I		2698	14666	0257	00122	1096
0150	0495 D	3428 E		2714	14723	0283	00159	0955
0175	0509 C	3442 D		2723	14735	0306	00197	0873
0200	0495 B	3449 B		2730	14734	0328	00238	0809
0225	0473	34533		2736	14730	0347	00281	0753
0250	0450	34576		2742	14725	0366	00325	0698
0300	0421 B	34654		2751	14722	0399	00418	0613
0400	0416	34767		2761	14738	0456	00624	0532
0500	0412	34820		2765	14754	0508	00864	0499
0600	0411	3486 B		2768	14770	0558	01144	0481
*0700	0410	34875		2770	14787	0606	01467	0475
0800	0406	34890		2771	14802	0654	01836	0469

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
1000	0396	34903		2774	14831	0749	02713	0466
1200	0385	34905		2775	14860	0844	03787	0470
1500	0375	3492 B		2777	14907	0987	05788	0475

C-REF-NO 005	YR 1965	DEPTH 1463	WAVES 1 02X2	AIR T 15.5	VIS 7
CONS. NO 006	MONTH 9	MXSAMPD 09	WAVES 2 02X3	WET B	STN 006
LAT 44-250N	DAY 03	NO-DPTH 15	WNO-DIR 020	WW-CODE 02	
LON 56-250W	HR 17.9	W-COLOR	WNO-SPD 03	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1020.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
179	0000	176 B	32716		2364	15126
179	0008	1699	32716		2379	15109
179	0017	1688	32702		2380	15107
179	0025	1168	32990		2511	14942
179	0042	0607	33248		2618	14737
179	0064	0407	33603		2669	14663
179	0085	0562	34131		2694	14738
179	0127	0672	34577		2714	14795
179	0169	0604	34621		2727	14775
179	0212	0552	34668		2737	14762
179	0254	0506	34683		2744	14750
179	0338	0492	34806		2755	14760
179	0420	0436	34832		2764	14751
179	0674	0409	34872		2770	14782
179	0858	0408	34895		2772	14812

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1760 B	32716		2364	15126	0000	00000	4260
0010	1720 I	3270 D		2372	15115	0042	00002	4186
0020	1512 I	3280 E		2427	15054	0082	00008	3664
0030	0946 G	3309 F		2557	14865	0112	00016	2428
0050	0478 D	3336 B		2643	14688	0153	00031	1616
0075	0471 H	3388 E		2684	14696	0189	00054	1223
0100	0627 B	3436 E		2703	14769	0218	00079	1049
0125	0672	34570		2714	14794	0243	00108	0954
0150	0645 D	3463 F		2722	14788	0266	00141	0880
0175	0596	34628		2729	14773	0287	00176	0820
0200	0565	34656		2735	14765	0307	00215	0765
0225	0536	34673		2739	14758	0326	00256	0721
0250	0510	34682		2743	14751	0344	00299	0686
0300	0495 C	3475 C		2750	14754	0377	00392	0625
0400	0451	34830		2762	14753	0435	00598	0524
0500	0414 D	34848		2767	14755	0486	00831	0480
0600	0404 C	34864		2770	14767	0534	01102	0467
0700	0386 G	3488 B		2773	14777	0580	01409	0443
0800	0395 C	34891		2773	14797	0625	01760	0455

C-REF-NO 005	YR 1965	DEPTH 1078	WAVES 1 03X2	AIR T 15.5	VIS 7
CONS. NO 007	MONTH 9	MXSAMPD 07	WAVES 2 03X3	WET B	STN 007
LAT 44-350N	DAY 03	NO-DPTH 14	WND-DIR 030	WW-CODE 02	
LON 55-470W	HR 22.1	W-COLOR	WND-SPD 05	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1021.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
221	0000	183 B	32695		2346	15146
221	0009	1763	32673		2360	15128
221	0018	1701	32758		2381	15112
221	0027	0949 B	33159		2562	14866
221	0045	0571	33269		2624	14724
221	0067	0534	34023		2688	14722
221	0089	0654	34466		2708	14780
221	0134	0648	34590		2719	14787
221	0178	0654	34758		2731	14798
221	0226	0584	34743		2739	14778
221	0273	0513	34741		2748	14757
221	0382	0474	34850		2761	14760
221	0463	0431	34852		2766	14756
221	0747	0396	34897		2773	14789

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1830 B	32695		2346	15146	0000	00000	4437
0010	1773 F	32672		2358	15131	0044	00002	4325
0020	1547 I	3284 E		2423	15066	0084	00008	3707
0030	0823 I	3319 I		2584	14819	0114	00015	2169
0050	0535 E	3342 I		2641	14712	0152	00031	1633
0075	0573 E	34217		2699	14742	0186	00052	1087
0100	0668 E	3454 I		2712	14788	0212	00075	0965
0125	0662 E	3461 I		2718	14791	0236	00102	0915
0150	0653 B	3466 C		2723	14792	0258	00134	0867
0175	0654	34749		2730	14798	0279	00169	0805
0200	0627 B	3476 C		2735	14791	0299	00207	0763
0225	0586	34744		2739	14779	0318	00248	0728
0250	0546	34739		2744	14767	0336	00291	0686
0300	0496 C	3477 C		2752	14755	0369	00383	0613
0400	0464	34853		2762	14759	0426	00587	0523
0500	0430 C	3489 F		2769	14762	0476	00817	0465
0600	0409 C	3491 E		2773	14770	0522	01074	0435
*0700	0398	3491 B		2774	14782	0566	01368	0436

C-REF-NO 005	YR 1965	DEPTH 2953	WAVES 1 03X2	AIR T 15.5	VIS 7
CONS. NO 008	MONTH 9	MXSAMPD 19	WAVES 2 03XX	WET B	STN 008
LAT 44-080N	DAY 04	NO. DPTH 17	WNO-DIR 010	WW-CODE 02	
LDN 55-320W	HR 02.3	W-COLOR	WNO-SPD 05	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1022.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
023	0000	176 B	32565		2353	15124
023	0010	1689	32530		2367	15104
023	0019	1689	32528		2367	15106
023	0029	1378	32797		2455	15012
023	0049	0522	33214		2626	14703
023	0073	0188	33529		2683	14569
023	0097	0222	33886		2708	14593
023	0145	0325	34411		2741	14653
023	0192	0445	34716		2753	14715
023	0240	0431	34755		2758	14718
023	0288	0437	34811		2762	14729
023	0383	0434	34872		2767	14744
023	0479	0426	34908		2771	14757
023	0766	0391	34913		2775	14790
023	0957	0386	34919		2776	14820
023	1435	0368	34933		2779	14893
023	1917	0358	34951		2781	14970

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
0000	1760 B	32565		2353	15124	0000	00000	4370
0010	1689	32530		2367	15104	0043	00002	4239
0020	1667 B	3255 B		2373	15099	0085	00009	4179
0030	1333 C	32821		2466	14997	0123	00018	3295
0050	0497 B	33229		2630	14693	0174	00037	1737
0075	0184 B	33559		2685	14568	0211	00060	1208
0100	0227	33926		2711	14596	0238	00084	0965
0125	0278	34221		2731	14627	0260	00109	0785
0150	0340 B	34455		2743	14661	0279	00135	0667
0175	0408 C	34633		2751	14696	0295	00162	0603
0200	0447 B	3473 B		2754	14717	0309	00190	0573
0225	0442 C	3476 D		2757	14720	0324	00221	0551
0250	0432	34767		2759	14720	0337	00254	0535
0300	0437	34821		2763	14731	0363	00328	0506
0400	0433	34880		2768	14747	0413	00504	0467
0500	0423	34911		2771	14760	0459	00717	0444
0600	0410	3492 B		2773	14771	0503	00967	0433
*0700	0398	3492 B		2774	14782	0547	01258	0429
0800	0390	34914		2775	14795	0590	01595	0432

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
1000	0384	34920		2776	14827	0678	02413	0440
1200	0377	34926		2777	14857	0768	03428	0444
1500	0369	34936		2779	14904	0904	05327	0452

C-REF-NO 005	YR 1965	DEPTH 2779	WAVES 1 02X2	AIR T 15.5	VIS 7
CONS. NO 009	MONTH 9	MXSAMPD 19	WAVES 2 02X2	WET B	STN 009
LAT 43-565N	DAY 04	NO.DPTH 17	WND-DIR 020	WW-CODE 02	
LON 56-090W	HR 07.4	W-COLOR	WND-SPD 06	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1023.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
074	0000	166 B	31836		2320	15085
074	0009	1611	31804		2329	15071
074	0018	1575 B	32556		2395	15071
074	0028	0886	32947		2556	14840
074	0046	0082	33085		2654	14511
074	0069	0153	33381		2673	14551
074	0092	0327	33803		2693	14637
074	0138	0465	34280		2717	14709
074	0185	0478	34475		2731	14724
074	0231	0461	34567		2740	14726
074	0277	0420	34612		2748	14717
074	0370	0473	34849		2761	14758
074	0432	0458	34894		2766	14763
074	0759	0433	34966		2775	14807
074	0922	0398	34938		2776	14819
074	1387	0372	34933		2778	14886
074	1861	0359	34955		2781	14961

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1660 B	31836		2320	15085	0000	00000	4679
0010	1620 E	3188 F		2333	15075	0046	00002	4565
0020	1458 I	3266 B		2428	15035	0088	00008	3655
0030	0764 B	3298 E		2576	14794	0117	00016	2247
0050	0046 I	33127		2659	14496	0155	00030	1451
0075	0197 C	3349 C		2679	14573	0189	00052	1269
0100	0366 B	3391 B		2698	14656	0219	00078	1094
0125	0446 C	3418 B		2711	14698	0245	00108	0974
0150	0476 B	3435 B		2721	14716	0268	00141	0886
0175	0482 B	3445 B		2728	14724	0290	00177	0819
0200	0475	34513		2734	14726	0310	00215	0768
0225	0465	34559		2739	14727	0328	00256	0724
0250	0443 B	3459 B		2743	14722	0346	00299	0683
0300	0429 D	3467 D		2752	14726	0379	00391	0609
0400	0468	34877		2764	14761	0435	00592	0510
0500	0486 G	3501 I		2772	14787	0483	00813	0446
0600	0482 F	3505 H		2776	14802	0527	01059	0417
*0700	0457 C	3502 D		2776	14808	0569	01343	0422
0800	0424	34960		2775	14810	0613	01679	0439

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
1000	0389 B	34932		2776	14829	0702	02500	0437
1200	0375 B	34927		2778	14856	0791	03509	0441
1500	0354 D	3492 C		2779	14898	0925	05379	0442

C-REF-NO 005	YR 1965	DEPTH 3255	WAVES 1 05X3	AIR T 16.6	VIS 7
CONS. NO 010	MONTH 9	MXSAMPD 17	WAVES 2 05X3	WET B	STN 010
LAT 43-400N	DAY 04	NO.DPTH 17	WND-DIR 050	WW-CODE 02	
LON 56-480W	HR 12.1	W-COLOR	WND-SPD 05	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1024.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
121	0000	172 B	32132		2329	15107
121	0009	1651	32109		2343	15087
121	0017	1649	32103		2343	15088
121	0026	1022	32863		2527	14889
121	0043	0455	33307		2641	14676
121	0065	0488	33864		2681	14701
121	0087	0793	34630		2701	14836
121	0126	0926	35068		2715	14898
121	0168	0768	34895		2726	14843
121	0210	0682	34864		2736	14816
121	0252	0602	34800		2741	14790
121	0334	0456	34733		2754	14743
121	0421	0546	34990		2763	14798
121	0674	0438	34955		2773	14795
121	0844	0415	34942		2775	14814
121	1276	0380	34945		2778	14871
121	1740	0364	34949		2780	14943

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1720 B	32132		2329	15107	0000	00000	4595
0010	1664 E	3209 D		2339	15091	0046	00002	4503
0020	1464 I	3233 I		2402	15033	0088	00009	3910
0030	0829 D	3303 I		2570	14820	0119	00016	2302
0050	0404 I	3347 C		2659	14658	0157	00031	1458
0075	0620 I	3422 H		2693	14761	0190	00051	1139
0100	0881 E	3487 G		2707	14875	0217	00076	1021
0125	0928	35068		2715	14899	0242	00104	0955
0150	0850 H	3500 I		2722	14873	0265	00137	0890
0175	0751	3489 B		2728	14838	0287	00173	0835
0200	0699	3487 B		2734	14821	0307	00212	0781
0225	0653	34842		2738	14807	0326	00254	0742
0250	0606	34803		2741	14792	0345	00299	0713
0300	0502 D	3474 C		2749	14757	0379	00395	0641
0400	0516 E	3492 E		2761	14781	0438	00606	0535
0500	0537 I	3504 I		2768	14808	0490	00842	0484
0600	0493 I	3503 I		2772	14807	0537	01110	0453
0700	0433	34952		2773	14797	0583	01413	0445
0800	0419	34945		2774	14808	0627	01760	0444

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
1000	0399	34940		2776	14833	0717	02592	0443
1200	0384	34943		2778	14860	0807	03606	0441
1500	0368	3494 B		2779	14904	0942	05489	0448

C-REF-NO 005	YR 1965	DEPTH 3538	WAVES 1 05X3	AIR T 19.4	VIS 7
CONS. NO 011	MONTH 9	MXSAMPD 19	WAVES 2 05X3	WET B	STN 011
LAT 43-300N	DAY 04	NO.DPTH 17	WND-DIR 050	WW-CODE 02	
LON 57-290W	HR 16.0	W-COLOR	WND-SPD 05	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1025.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
160	0000	178 B	32033		2307	15124
160	0009	1716 B	32049		2324	15106
160	0018	1708	32054		2326	15105
160	0027	1036	32716		2513	14892
160	0046	0310	33032		2633	14611
160	0069	0249	33347		2663	14593
160	0091	0329	33695		2684	14636
160	0137	0550	34369		2714	14745
160	0179		34427			
160	0228	0536 B	34697		2741	14758
160	0274	0519	34771		2749	14760
160	0365	0506	34895		2761	14771
160	0457	0464	34902		2766	14769
160	0734	0417	34944		2775	14796
160	0919	0393	34938		2777	14817
160	1392	0374	34945		2779	14888
160	1875	0355	34958		2782	14962

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1780 B	32033		2307	15124	0000	00000	4803
0010	1730 F	3203 D		2319	15111	0048	00002	4693
0020	1578 I	3219 I		2366	15067	0093	00009	4252
0030	0870 D	3282 I		2548	14832	0127	00017	2517
0050	0262 I	33088		2642	14592	0168	00034	1623
0075	0263 B	33440		2670	14601	0206	00057	1359
0100	0375 C	3386 E		2692	14659	0237	00085	1148
0125	0496 D	3423 F		2709	14719	0264	00116	0996
0150	0567 F	3441 H		2715	14754	0289	00151	0947
0175	0582 I	3443 C		2715	14765	0313	00191	0952
0200	0574 I	3454 F		2724	14767	0336	00234	0861
0225	0541 B	3468 B		2739	14760	0356	00278	0722
0250	0528	3474 B		2746	14759	0373	00320	0661
0300	0515	34814		2753	14763	0405	00410	0600
0400	0491	3490 B		2763	14771	0461	00610	0516
0500	0452 B	34909		2768	14772	0512	00842	0478
0600	0431 B	3493 B		2771	14780	0559	01107	0453
*0700	0419	34940		2774	14791	0604	01408	0438
0800	0408	34943		2775	14803	0648	01747	0432

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
1000	0388	34938		2777	14828	0735	02556	0430
1200	0378 B	34940		2778	14858	0823	03550	0435
1500	0361 C	34943		2780	14901	0955	05396	0436

C-REF-NO 005	YR 1965	DEPTH 3493	WAVES 1 01X3	AIR T 19.4	VIS 7
CONS. NO 012	MONTH 9	MXSAMPD 19	WAVES 2 01X3	WET B	STN 012
LAT 43-205N	DAY 04	NO. DPTH 17	WND-DIR 010	WW-CODE 01	
LON 58-070W	HR 20.0	W-COLOR	WND-SPD 05	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1025.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
200	0000	179 B	32107		2311	15128
200	0009	1732	32095		2324	15112
200	0018	1720	32224		2336	15111
200	0028	1244	32778		2480	14966
200	0046	0571	33224		2621	14723
200	0069	0252	33488		2674	14596
200	0092	0405	34011		2702	14672
200	0138	0505	34450		2726	14728
200	0153	0487	34616		2741	14725
200	0228	0544	34788		2748	14763
200	0263	0498	34805		2754	14750
200	0364	0532	34980		2764	14783
200	0454	0464	34931		2768	14769
200	0728	0402	34943		2776	14789
200	0912	0388	34926		2776	14813
200	1381	0368	34933		2779	14884
200	1868	0358	34953		2781	14962

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
0000	1790 B	32107		2311	15128	0000	00000	4772
0010	1739 D	32097		2322	15114	0047	00002	4667
0020	1641 H	3233 F		2362	15089	0092	00009	4286
0030	1154	3285 C		2503	14937	0129	00018	2948
0050	0477 B	3327 E		2636	14686	0175	00036	1683
0075	0272 I	3362 E		2683	14608	0212	00059	1230
0100	0441	3411 G		2706	14690	0240	00084	1020
0125	0503	3436 I		2719	14723	0265	00112	0903
0150	0491	34584		2738	14726	0285	00140	0726
0175	0502 H	3473 I		2748	14736	0302	00169	0630
0200	0521 I	3480 I		2751	14749	0318	00199	0606
*0225	0541 B	3479 B		2748	14761	0333	00233	0637
0250	0516 B	34800		2752	14755	0349	00271	0606
0300	0503 G	3487 F		2759	14759	0378	00353	0542
0400	0509 B	3497 C		2766	14779	0430	00538	0488
0500	0444 B	3493 B		2770	14769	0478	00758	0457
0600	0414 D	3493 D		2773	14773	0523	01012	0433
*0700	0402 B	3494 B		2776	14784	0566	01300	0420
0800	0395	34937		2776	14798	0608	01629	0421

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
1000	0383	34924		2776	14826	0695	02434	0435
1200	0374	34925		2778	14856	0784	03440	0441
1500	0363	3493 B		2779	14901	0920	05329	0450

C-REF-NO 005	YR 1965	DEPTH 3474	WAVES 1 02X3	AIR T 17.2	VIS 7
CONS. NO 013	MONTH 9	MXSAMPD 16	WAVES 2 02X3	WET B	STN 013
LAT 43-110N	DAY 05	NO.DPTH 17	WND-DIR 020	WW-CODE 02	
LON 58-460W	HR 00.5	W-COLOR	WND-SPD 05	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1026.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
005	0000	171 B	31744		2302	15099
005	0008	1640	31727		2317	15079
005	0016	1644	31726		2316	15082
005	0025	0770 C	32203		2515	14785
005	0041	0114	32672		2619	14519
005	0062	0036	32888		2641	14490
005	0082	0050	33134		2660	14503
005	0120	0364	33867		2694	14658
005	0156	0530	34344		2714	14739
005	0193	0534	34462		2723	14749
005	0235	0508	34517		2730	14746
005	0298	0425	34586		2745	14723
005	0374	0415	34711		2756	14733
005	0601	0414	34870		2769	14772
005	0749	0416	34905		2772	14798
005	1168	0380	34919		2776	14853
005	1622	0370	34929		2778	14925

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1710 B	31744		2302	15099	0000	00000	4856
0010	1672 I	3171 D		2308	15089	0048	00002	4802
0020	1291 I	3192 I		2405	14970	0092	00009	3879
0030	0476 I	3239 C		2566	14670	0123	00017	2343
0050	0020 I	3279 G		2634	14480	0164	00033	1695
0075	0034	33040		2653	14494	0204	00058	1510
0100	0184 I	3347 H		2678	14571	0239	00089	1274
0125	0396	33950		2698	14673	0269	00123	1098
0150	0512	34284		2712	14730	0295	00160	0975
0175	0544 C	3443 D		2719	14749	0319	00199	0904
0200	0532	34474		2724	14749	0341	00242	0861
0225	0517	34508		2729	14747	0363	00288	0821
0250	0488 B	34533		2734	14740	0383	00337	0772
0300	0424	34589		2746	14723	0419	00439	0665
0400	0414	34741		2759	14737	0480	00657	0550
0500	0411	3483 C		2766	14753	0533	00899	0493
*0600	0414	34870		2769	14772	0582	01175	0474
0700	0416	34897		2771	14789	0629	01492	0465
0800	0413	34910		2772	14805	0676	01854	0462

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
1000	0397 B	3492 B		2775	14832	0769	02712	0454
1200	0392 D	3494 D		2777	14863	0861	03753	0453
1500	0377 B	3494 B		2778	14907	1000	05693	0462

C-REF-NO 005	YR 1965	DEPTH		WAVES 1 04X3	AIR T 16.1	VIS 7
CONS. NO 014	MONTH 9	MXSAMPD 10		WAVES 2 04X3	WET B	STN 014
LAT 43-015N	DAY 05	NO.DPTH 16		WND-DIR 040	WW-CODE 02	
LON 59-240W	HR 05.0	W-COLOR		WND-SPD 07	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP		BARO 1026.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
050	0000	174 B	32284		2336	15115
050	0008	1698	32213		2341	15103
050	0015	1696	32192		2339	15103
050	0038	0875	32704		2538	14834
050	0042	0369 C	33054		2629	14636
050	0048	0228 B	33163		2650	14578
050	0060	0344	33678		2681	14637
050	0088	0566 B	34254		2703	14742
050	0133	0570	34740		2741	14757
050	0180	0578 B	34796		2744	14769
050	0259	0458	34703		2751	14731
050	0300	0374	34626		2754	14702
050	0470	0427	34967		2775	14757
050	0575	0412	35110		2788	14770
050	0642	0396	35021		2783	14773
050	1004	0380	35037		2786	14827

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1740 B	32284		2336	15115	0000	00000	4529
0010	1702 C	32201		2339	15104	0045	00002	4507
0020	1481 I	3232 I		2397	15038	0088	00009	3953
0030	1042 I	3259 I		2502	14893	0123	00017	2949
0050	0229 G	3324 D		2656	14580	0167	00034	1482
0075	0478 B	3405 I		2697	14701	0200	00054	1100
0100	0588 G	3443 B		2714	14755	0225	00077	0948
0125	0585 E	34689		2735	14761	0247	00102	0755
0150	0576 B	3479 E		2744	14763	0265	00127	0671
0175	0578 B	3480 B		2745	14768	0282	00155	0669
0200	0558 B	3479 B		2746	14764	0299	00187	0659
0225	0523 C	3476 B		2748	14754	0315	00223	0639
*0250	0477	34721		2750	14738	0331	00262	0619
0300	0374	34626		2754	14702	0361	00347	0584
0400	0372 I	3477 I		2765	14720	0415	00539	0483
0500	0425	3503 C		2780	14762	0458	00732	0359
0600	0406	3508 B		2787	14771	0491	00921	0306
0700	0393 B	3512 I		2791	14783	0521	01118	0278
0800	0385 B	3512 I		2792	14796	0548	01332	0271
*1000	0380	35040		2786	14826	0611	01919	0346

C-REF-NO 005	YR 1965	DEPTH		WAVES 1 04X3	AIR T 15.5	VIS 7
CONS. NO 015	MONTH 9	MXSAMPD 19		WAVES 2 04X4	WET B	STN 015
LAT 42-345N	DAY 05	NO. DPTH 17		WND-DIR 040	WW-CODE 02	
LON 59-090W	HR 10.3	W-COLOR		WND-SPD 09	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP		BARO 1025.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
103	0000	205 B	34409		2420	15228
103	0009	2093	34401		2408	15241
103	0019	2093	34444		2411	15243
103	0028	2090	34391		2408	15243
103	0038	1282	34685		2620	15005
103	0047	1340	35269		2654	15033
103	0094	1353	35566		2674	15049
103	0141	1206	35435		2693	15005
103	0186	1050	35346		2715	14957
103	0234	0916	35152		2723	14913
103	0281	0816	35050		2731	14882
103	0377	0621	34955		2751	14821
103	0472	0524	34961		2764	14797
103	0760	0434	34970		2775	14808
103	0948	0423	34974		2776	14835
103	1437	0380	34960		2780	14898
103	1926	0358	34967		2782	14972

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
0000	2050 B	34409		2420	15228	0000	00000	3730
0010	2094	34406		2408	15241	0038	00002	3848
0020	2110 F	3443 B		2406	15247	0077	00008	3873
0030	1926 I	34420		2453	15199	0114	00017	3422
0050	0951 C	3518 I		2719	14896	0157	00032	0896
0075	0741 I	3559 I		2784	14827	0172	00041	0280
0100	1339 B	3556 C		2676	15045	0192	00061	1318
0125	1266 C	3550 F		2687	15024	0224	00098	1226
0150	1174	35419		2698	14996	0254	00139	1122
0175	1087	3537 B		2711	14969	0280	00184	1009
0200	1008	3529 B		2718	14943	0305	00231	0937
0225	0939	3519 B		2722	14921	0328	00282	0904
0250	0880	35110		2726	14902	0351	00336	0874
0300	0773	35021		2735	14868	0393	00454	0788
0400	0592	34952		2755	14813	0463	00702	0605
0500	0507 B	34962		2766	14795	0519	00959	0504
0600	0460 E	34966		2772	14792	0567	01232	0456
*0700	0436 C	34969		2774	14799	0613	01533	0437
0800	0430	34971		2775	14813	0657	01875	0438

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
1000	0418	34973		2777	14841	0746	02701	0442
1200	0401	34968		2778	14868	0836	03718	0443
1500	0382 B	3497 B		2780	14910	0971	05601	0446

C-REF-NO 005	YR 1965	DEPTH 3657	WAVES 1 06X6	AIR T 14.9	VIS 5
CONS. NO 016	MONTH 9	MXSAMPD 16	WAVES 2 06X7	WET 8	STN 020
LAT 43-295N	DAY 06	NO.DPTH 16	WND-DIR 060	WW-CODE 45	
LON 56-000W	HR 22.7	W-COLOR	WND-SPD 05	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1003.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
237	0000	174 B	32696		2368	15120
237	0008	1678	32684		2381	15102
237	0016	1676	32682		2381	15103
237	0024	1677	32683		2381	15105
237	0041	1174 B	33063		2516	14948
237	0062	0936	34188		2644	14880
237	0077	1110	34869		2667	14954
237	0110	1188	35292		2686	14992
237	0182	0908	35000		2712	14900
237	0225	0880	35056		2721	14897
237	0319	0594	34770		2740	14798
237	0408	0556	34927		2757	14799
227	0609	0470	34957		2770	14798
227	0784	0424	34943		2774	14807
227	1212	0376	34929		2778	14858
227	1583	0364	34943		2780	14916

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1740 B	32696		2368	15120	0000	00000	4229
0010	1675	32683		2382	15102	0042	00002	4095
0020	1686 C	3268 B		2379	15106	0083	00008	4129
0030	1523 I	32761		2422	15059	0123	00018	3719
0050	1012 C	3351 I		2579	14897	0182	00041	2223
0075	1081 D	3479 B		2667	14943	0228	00069	1402
0100	1193 E	3526 I		2682	14992	0261	00099	1261
0125	1143 I	3528 I		2693	14979	0292	00134	1162
0150	1053 I	3520 I		2704	14950	0320	00174	1066
*0175	0942 G	3505 I		2711	14912	0346	00217	0999
0200	0894 D	3502 D		2716	14898	0371	00264	0952
0225	0880	35056		2721	14897	0394	00315	0909
0250	0807 I	3499 I		2727	14873	0416	00370	0855
0300	0654 H	3483 I		2737	14819	0457	00484	0762
0400	0555 B	3491 B		2756	14797	0526	00726	0593
0500	0514	3497 F		2766	14798	0581	00980	0506
0600	0473	34961		2770	14798	0631	01260	0476
0700	0443	34952		2772	14802	0678	01576	0458
0800	0421	34942		2774	14809	0724	01929	0448
1000	0392	34932		2776	14830	0814	02761	0440

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
*1200	0376	34929		2778	14857	0903	03773	0441
1500	0361	34938		2780	14901	1037	05641	0441

C-REF-NO 005	YR 1965	DEPTH 3657	WAVES 1 06X6	AIR T 17.2	VIS 6
CONS. NO 017	MONTH 9	MXSAMPD 16	WAVES 2 06X6	WET B	STN 021
LAT 43-39N	DAY 07	NO.DPTH 17	WND-DIR 060	WW-CODE 02	
LON 55-155W	HR 04.8	W-COLOR	WND-SPD 05	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1013.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
048	0000	170 B	32753		2381	15108
048	0008	1632	32646		2389	15088
048	0015	1630	32675		2391	15089
048	0023	1536	32665		2412	15061
048	0038	0394	32927		2617	14644
048	0056	0296	33208		2648	14609
048	0075	0360	33672		2679	14646
048	0111	0693	34480		2704	14799
048	0144	0894	34967		2712	14888
048	0161	0772	34874		2724	14843
048	0216	0614	34705		2732	14788
048	0290	0610	34846		2744	14800
048	0364	0522	34835		2754	14777
048	0588	0440	34926		2771	14781
048	0738	0428	34935		2773	14801
048	1130	0386	34913		2775	14849
048	1560	0375	34943		2779	14917

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1700 B	32753		2381	15108	0000	00000	4098
0010	1633 B	3265 B		2389	15088	0041	00002	4027
0020	1598 E	3267 B		2398	15079	0081	00008	3944
0030	1021 I	3277 E		2519	14888	0115	00017	2787
0050	0243 I	3311 B		2645	14584	0159	00033	1593
0075	0360	33672		2679	14646	0195	00056	1269
0100	0583 G	3425 B		2701	14750	0224	00082	1074
0125	0820 I	3476 I		2707	14854	0251	00113	1021
0150	0858 D	3495 C		2716	14875	0275	00147	0941
0175	0708 D	34810		2728	14820	0298	00184	0832
0200	0634 D	34732		2732	14794	0318	00224	0796
0225	0609 C	3472 D		2734	14788	0338	00267	0780
0250	0603 G	3475 H		2738	14790	0357	00314	0746
0300	0600	34848		2745	14798	0393	00415	0679
0400	0497 B	3485 B		2758	14773	0456	00638	0566
0500	0451 D	3489 D		2766	14771	0510	00885	0495
0600	0438	34928		2771	14783	0558	01157	0459
0700	0430	34935		2772	14796	0604	01465	0453
0800	0421	34932		2773	14809	0650	01820	0455

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
1000	0399	3492 B		2775	14833	0743	02676	0457
1200	0389 C	3493 D		2776	14862	0835	03722	0455
1500	0376	34941		2778	14907	0974	05657	0459

C-REF-NO 005 YR 1965 DEPTH 4078 WAVES 1 06X5 AIR T 15.5 VIS 6
 CONS. NO 018 MONTH 9 MXSAMPD 19 WAVES 2 06X6 WET B STN 022
 LAT 43-100N DAY 07 NO.DPTH 17 WND-DIR 060 WW-CODE 02
 LON 55-005W HR 09.5 W-COLOR WND-SPD 06 CLD-TPE
 MARSD SQ 150 C/I 1810 W-TRNSP BARO 1012.0 CLD-AMT HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
095	0000	195 B	33605		2385	15191
095	0010	1866	33615		2407	15169
095	0020	1552 B	33451		2468	15075
095	0030	0831	33688		2622	14829
095	0050	0655	34198		2687	14770
095	0074	0752	34751		2717	14820
095	0099	0778	34693		2709	14833
095	0148	0645	34637		2723	14788
095	0196	0629	34756		2734	14791
095	0244	0532	34721		2744	14760
095	0293	0523	34790		2750	14765
095	0389	0404	34769		2762	14731
095	0485	0392	34810		2767	14743
095	0774	0382	34867		2772	14787
095	0965	0392	34911		2775	14824
095	1449	0390	34952		2778	14904
095	1940	0364	34947		2780	14976

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1950 B	33605		2385	15191	0000	00000	4063
0010	1866	33615		2407	15169	0040	00002	3856
0020	1552 B	33451		2468	15075	0076	00007	3272
0030	0831	33688		2622	14829	0101	00014	1813
0050	0655	34198		2687	14770	0132	00025	1198
0075	0754	3476 B		2717	14821	0158	00042	0920
0100	0776	34691		2709	14832	0182	00064	1002
0125	0715 H	3465 B		2714	14812	0207	00092	0954
0150	0644	34642		2723	14788	0230	00125	0868
0175	0634 D	3470 E		2729	14789	0251	00160	0813
0200	0621	34754		2735	14789	0271	00198	0762
0225	0570 C	3474 C		2740	14772	0290	00238	0713
0250	0529	34728		2745	14760	0307	00281	0675
0300	0515 B	34791		2751	14763	0340	00373	0617
0400	0400	34772		2763	14731	0397	00575	0511
0500	0391	34814		2767	14745	0447	00806	0480
0600	0384	3484 B		2770	14759	0494	01075	0464
*0700	0381	3486 B		2771	14774	0541	01386	0456
0800	0383	34873		2772	14792	0587	01741	0455

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
1000	0393	34916		2775	14830	0679	02592	0453
1200	0395	34940		2777	14865	0771	03636	0456
1500	0391	3496 B		2779	14914	0911	05581	0462

C-REF-NO 005	YR 1965	DEPTH 3913	WAVES 1 06X5	AIR T 19.4	VIS 6
CONS. NO 019	MONTH 9	MXSAMPD 19	WAVES 2 06X6	WET B	STN 023
LAT 43-000N	DAY 07	NO.DPTH 17	WND-DIR 060	WW-CODE 44	
LON 55-460W	HR 14.2	W-COLOR	WND-SPD 02	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1012.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
142	0000	187 B	32879		2350	15160
142	0010	1786	32885		2371	15137
142	0019	1784	32889		2372	15138
142	0029	1086	33030		2529	14914
142	0048	0608	33678		2652	14744
142	0072	0649	34291		2695	14773
142	0097	0754	34577		2703	14822
142	0145	0758	34764		2717	14834
142	0192	0652	34686		2726	14799
142	0239	0537	34526		2728	14758
142	0286	0486	34670		2745	14747
142	0380	0392	34679		2756	14723
142	0472	0418	34820		2765	14751
142	0750	0430	34925		2772	14804
142	0937	0392	34913		2775	14819
142	1409	0382	34965		2780	14895
142	1900	0362	34959		2781	14969

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1870 B	32879		2350	15160	0000	00000	4398
0010	1786	32885		2371	15137	0043	00002	4200
0020	1724 H	32897		2387	15121	0085	00008	4052
0030	1041 C	3306 B		2539	14899	0118	00017	2602
0050	0597 D	33740		2658	14741	0159	00032	1468
0075	0662	3434 B		2697	14779	0191	00052	1106
0100	0760	34600		2704	14825	0219	00077	1047
0125	0779 C	3473 C		2711	14838	0244	00106	0980
0150	0750	34764		2718	14831	0268	00140	0919
0175	0697 B	3473 B		2723	14815	0291	00177	0873
0200	0630	3465 C		2726	14791	0312	00219	0851
0225	0568 B	3456 E		2727	14769	0334	00266	0843
0250	0522	3455 D		2731	14754	0354	00316	0799
0300	0468 B	3468 D		2748	14742	0391	00418	0646
0400	0393 B	3471 B		2758	14728	0451	00634	0553
0500	0423	3485 B		2766	14759	0504	00877	0493
0600	0435	3491 E		2770	14781	0553	01151	0470
*0700	0435	3493 C		2771	14798	0600	01467	0464
0800	0421	34924		2773	14808	0647	01828	0461

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
1000	0387 B	3492 B		2776	14828	0739	02676	0445
1200	0379 C	3494 C		2778	14858	0828	03689	0438
1500	0359 F	3494 E		2780	14900	0961	05537	0435

C-REF-NO 005	YR 1965	DEPTH 3822	WAVES 1 08X3	AIR T 19.9	VIS 7
CONS. NO 020	MONTH 9	MXSAMPD 19	WAVES 2 08X3	WET B	STN 024
LAT 42-480N	DAY 07	NO.DPTH 14	WND-DIR 080	WW-CODE 02	
LON 56-230W	HR 18.4	W-COLOR	WND-SPD 02	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1011.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
184	0000	186 B	32527		2326	15153
184	0009	1732	32541		2358	15117
184	0018	1712	32546		2363	15113
184	0027	0773	33479		2614	14803
184	0045	0834	34200		2662	14839
184	0067	0872	34522		2681	14861
184	0090	1108	35207		2694	14960
184	0135	1056	35180		2701	14949
184	0180	0884	34968		2714	14890
184	0225	0740	34809		2723	14841
184	0640	0438	34918		2770	14789
184	0824	0426	34947		2774	14815
184	1349	0384	34927		2777	14885
184	1859	0356	34914		2778	14959

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1860 B	32527		2326	15153	0000	00000	4630
0010	1750 I	3252 E		2352	15122	0045	00002	4383
0020	1515 I	3273 I		2421	15054	0086	00008	3723
0030	0694 I	3367 I		2640	14776	0113	00015	1642
0050	0836 C	3429 I		2668	14842	0143	00027	1380
0075	0953 G	3477 I		2687	14896	0176	00048	1207
0100	1131 H	3529 I		2696	14971	0205	00074	1129
0125	1102 H	3527 I		2700	14964	0233	00106	1095
0150	1004 C	3512 C		2706	14931	0260	00144	1047
0175	0905 B	3500 B		2713	14898	0286	00187	0984
0200	0817	34892		2718	14867	0310	00233	0930
0225	0740	34809		2723	14841	0333	00283	0885
0250	0665 B	3472 C		2727	14814	0355	00336	0851
0300	0541 B	3460 C		2733	14771	0396	00453	0794
*0400	0377 C	3448 D		2742	14718	0472	00724	0708
*0500	0324 B	3454 C		2751	14713	0539	01031	0617
*0600	0383	34773		2764	14757	0596	01350	0511
0700	0430 B	34929		2772	14796	0645	01677	0459
0800	0425	34944		2774	14811	0691	02032	0452
1000	0412	3495 B		2775	14838	0783	02881	0452
1200	0396	3494 B		2776	14865	0875	03925	0457
1500	0378 B	3494 D		2779	14908	1014	05863	0458

C-REF-NO 005	YR 1965	DEPTH 4206	WAVES 1 08X3	AIR T 20.5	VIS 7
CONS. NO 021	MONTH 9	MXSAMPD 20	WAVES 2 08X3	WET B	STN 025
LAT 42-390N	DAY 07	NO.DPTH 15	WND-DIR 080	WW-CODE 02	
LON 57-000W	HR 23.0	W-COLOR	WND-SPD 02	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1010.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
230	0000	205 B	33689		2365	15220
230	0010	1971	33799		2394	15201
230	0020	1896	33701		2406	15180
230	0030	1462	33360		2481	15047
230	0098	1394	35040		2625	15056
230	0147	1299	35146		2653	15034
230	0196	1138	35396		2703	14990
230	0245	0965	35167		2716	14933
230	0293	0708	34835		2730	14840
230	0392	0608	34909		2749	14817
230	0490	0514	34908		2761	14795
230	0783	0428	34944		2773	14809
230	0980	0404	34936		2775	14832
230	1470	0376	34938		2778	14902
230	1960	0359	34950		2781	14978

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	2050 B	33689		2365	15220	0000	00000	4251
0010	1971	33799		2394	15201	0041	00002	3977
0020	1896	33701		2406	15180	0081	00008	3869
0030	1462	33360		2481	15047	0116	00017	3155
0050	1430 I	3356 I		2503	15042	0177	00042	2950
0075	1328 I	3409 I		2565	15019	0244	00084	2367
0100	1391	3505 C		2626	15056	0297	00130	1793
0125	1348	3515 I		2643	15047	0340	00180	1645
0150	1290	3517 B		2656	15032	0380	00236	1525
0175	1212	3531 I		2682	15011	0415	00294	1278
0200	1126	3539 B		2705	14987	0445	00351	1070
0225	1042 B	3530 E		2713	14960	0471	00407	0996
0250	0937 B	3513 B		2718	14923	0495	00467	0951
0300	0691 C	3483 D		2731	14834	0540	00592	0818
0400	0600	34910		2750	14815	0614	00854	0647
0500	0508	34909		2762	14795	0674	01129	0545
0600	0461 E	3492 B		2768	14792	0726	01424	0491
*0700	0434 D	3493 B		2772	14798	0775	01745	0460
0800	0425	34944		2774	14811	0821	02101	0452
1000	0402	34936		2775	14834	0912	02946	0450
1200	0388	34934		2777	14862	1003	03981	0452

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
1500	0370 B	34935		2779	14904	1141	05898	0454
2000	0359	34952		2781	14985	1375	10138	0468

C-REF-NO 005	YR 1965	DEPTH 4389	WAVES 1 08X3	AIR T 20.5	VIS 7
CONS. NO 022	MONTH 9	MXSAMPD 19	WAVES 2 08X3	WET B	STN 026
LAT 42-280N	DAY 08	NO-DPTH 17	WND-DIR 180	WW-CODE 02	
LON 57-300W	HR 03.9	W-COLOR	WND-SPD 02	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1010.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
039	0000	233 B	35371		2415	15311
039	0010	2288	35404		2429	15303
039	0020	2174	35070		2436	15272
039	0030	2164	35048		2437	15271
039	0049	1512	34987		2595	15086
039	0074	1576	35837		2646	15120
039	0098	1510	35846		2662	15104
039	0147	1351	35667		2682	15058
039	0196	1225	35489		2694	15022
039	0245	1104	35374		2708	14986
039	0296	0984	35225		2717	14950
039	0391	0755	35015		2737	14876
039	0489	0627	34988		2753	14842
039	0723	0460	35009		2775	14813
039	0966	0433	34971		2775	14842
039	1457	0388	34956		2779	14905
039	1950	0362	34958		2781	14977

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	2330 B	35371		2415	15311	0000	00000	3778
0010	2288	35404		2429	15303	0037	00002	3643
0020	2174	35070		2436	15272	0074	00007	3581
0030	2164	35048		2437	15271	0110	00017	3574
0050	1506 D	3502 D		2599	15084	0166	00038	2038
0075	1575	3585 B		2647	15120	0212	00067	1590
0100	1504	35841		2663	15102	0250	00101	1449
0125	1422 B	3576 D		2675	15079	0285	00141	1344
0150	1343	35655		2683	15056	0318	00188	1270
0175	1277	35561		2689	15037	0349	00240	1216
0200	1215	35479		2695	15019	0379	00298	1166
0225	1153	35419		2702	15000	0408	00360	1102
0250	1092	35359		2709	14983	0435	00426	1043
0300	0973	35213		2718	14946	0486	00568	0959
0400	0740	35008		2739	14872	0573	00876	0767
0500	0615	34988		2754	14839	0643	01197	0624
0600	0527 B	3499 C		2766	14820	0701	01521	0518
*0700	0469	35006		2774	14813	0749	01846	0449
0800	0443 C	34999		2776	14819	0794	02190	0433

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
1000	0429	34968		2775	14846	0884	03029	0459
1200	0410	34958		2776	14871	0978	04086	0462
1500	0386	3495 B		2778	14911	1119	06055	0468

C-REF-NO 005	YR 1965	DEPTH 4352	WAVES 1 15X2	AIR T 19.4	VIS 7
CONS. NO 023	MONTH 9	MXSAMPD 19	WAVES 2 15X2	WET B	STN 027
LAT 42-058N	DAY 08	NO.DPTH 17	WND-DIR 150	WW-CODE 81	
LON 58-170W	HR 08.4	W-COLOR	WND-SPD 02	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1007.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
095	0000	241 B	35473		2399	15332
095	0010	2363	35476		2413	15322
095	0020	2368	35503		2414	15326
095	0030	2377	35618		2420	15331
095	0050	1876	35616		2557	15202
095	0075	1588	35642		2629	15122
095	0099	1488	35660		2652	15094
095	0148	1412	35725		2674	15079
095	0197	1305	35602		2687	15050
095	0246	1181	35504		2703	15015
095	0296	1041	35291		2713	14971
095	0394	0850	35118		2731	14915
095	0493	0666	35000		2749	14858
084	0743	0464	34957		2770	14817
084	0928	0421	34943		2774	14830
084	1395	0396	34964		2778	14898
084	1868	0372	34964		2781	14968

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	2410 B	35473		2399	15332	0000	00000	3929
0010	2363	35476		2413	15322	0039	00002	3798
0020	2368	35503		2414	15326	0077	00008	3797
0030	2377	35618		2420	15331	0115	00018	3743
0050	1876	35616		2557	15202	0177	00042	2441
0075	1588	35642		2629	15122	0230	00074	1768
0100	1486	35662		2653	15094	0272	00112	1542
0125	1439 D	3570 C		2667	15084	0309	00154	1421
0150	1408	35722		2674	15078	0344	00204	1353
0175	1356	3567 C		2681	15064	0377	00259	1295
0200	1298	35597		2688	15048	0409	00320	1238
0225	1236	3555 B		2697	15031	0439	00386	1160
0250	1170	35488		2704	15011	0468	00455	1089
0300	1032	35280		2713	14968	0521	00604	1009
0400	0838	35109		2732	14911	0614	00935	0839
0500	0657	34996		2750	14856	0690	01284	0674
0600	0546 D	3496 E		2761	14827	0753	01637	0570
*0700	0479 C	3495 C		2768	14817	0807	01997	0503
0800	0445 B	34951		2772	14819	0857	02376	0470

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
1000	0413 B	34944		2775	14839	0950	03244	0457
1200	0399 C	3495 B		2777	14867	1043	04288	0453
1500	0373 E	3495 C		2780	14906	1180	06192	0447

C-REF-NO 005	YR 1965	DEPTH 4517	WAVES 1 16X2	AIR T 24.9	VIS 7
CONS. NO 024	MONTH 9	MXSAMPD 12	WAVES 2 15X2	WET B	STN 028
LAT 42-060N	DAY 08	NO.DPTH 16	WND-DIR 180	WW-CODE 01	
LON 58-500W	HR 14.7	W-COLOR	WND-SPD 02	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1007.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
147	0000	248 B	35642		2391	15351
147	0009	2428	35743		2414	15341
147	0017	2434	35812		2417	15345
150	0040	2444	35942		2424	15352
150	0060	2130	35728		2498	15274
150	0079	1824	35874		2590	15195
150	0119	1612	35816		2636	15138
150	0159	1556	35858		2653	15128
155	0180	1572	36012		2661	15138
155	0220	1490	35901		2671	15118
155	0280	1264	35548		2691	15049
155	0353	1126	35409		2706	15012
155	0522	0770	35050		2738	14904
155	0620	0612	34984		2755	14858
155	0892	0468	34992		2773	14844
155	1158	0417	34977		2777	14867

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	2480 B	35642		2391	15351	0000	00000	4008
0010	2427	35752		2415	15341	0039	00002	3781
0020	2447 D	3584 B		2416	15348	0077	00008	3775
0030	2465 H	3592 D		2416	15355	0115	00017	3778
0050	2306 F	3583 I		2456	15319	0187	00047	3401
0075	1883 B	3583 D		2572	15211	0259	00091	2309
0100	1666 I	3587 H		2628	15152	0311	00136	1785
0125	1595	3581 B		2640	15134	0354	00186	1678
0150	1557	3583 B		2650	15127	0395	00244	1587
0175	1569	3598 C		2659	15136	0434	00309	1513
0200	1544 B	3600 F		2666	15133	0472	00381	1453
0225	1472 B	3587 B		2672	15112	0508	00459	1397
0250	1378 E	3573 F		2681	15085	0542	00543	1319
0300	1219 C	3550 D		2695	15037	0605	00720	1189
0400	1024 C	3530 D		2716	14982	0716	01114	1006
0500	0815 B	3509 B		2734	14918	0809	01539	0836
0600	0641	34992		2751	14866	0885	01965	0670
0700	0542 F	3497 D		2762	14843	0947	02380	0566
0800	0487 F	3498 D		2769	14837	1002	02796	0506
1000	0393 I	3495 G		2777	14831	1096	03664	0428

C-REF-NO 005	YR 1965	DEPTH 4663	WAVES 1 09X2	AIR T 25.5	VIS 7
CONS. NO 025	MONTH 9	MXSAMPD 18	WAVES 2 09X2	WET B	STN 029
LAT 41-400N	DAY 08	NO.DPTH 17	WND-DIR 090	WW-CODE 02	
LON 58-370W	HR 20.2	W-COLOR	WND-SPD 05	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1004.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
202	0000	253 B	36462		2437	15372
202	0008	2494	36422		2445	15364
202	0017	2483	36419		2449	15363
202	0025	2482	36418		2449	15364
202	0042	2481	36415		2449	15367
202	0063	2355	36606		2501	15342
202	0084	2197	36618		2547	15306
202	0126	1990	36673		2608	15259
202	0168	1880	36564		2628	15234
202	0210	1798	36477		2642	15217
202	0252	1784	36482		2646	15219
202	0335		36226			
202	0419	1435	35867		2680	15133
202	0671	0793	35079		2737	14938
202	0844	0546	35026		2766	14869
202	1295	0420	35008		2779	14892
202	1771	0378 B	34961		2780	14954

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	2530 B	36462		2437	15372	0000	00000	3563
0010	2490	36419		2446	15363	0035	00002	3480
0020	2482	36419		2449	15363	0070	00007	3463
0030	2486 B	3641 B		2447	15366	0105	00016	3485
0050	2443 B	3649 E		2466	15360	0174	00044	3314
0075	2264 B	3662 C		2529	15322	0249	00092	2724
0100	2104	3665 C		2575	15285	0313	00147	2288
0125	1994	36672		2607	15260	0366	00209	1994
0150	1919 B	3662 C		2623	15243	0415	00277	1856
0175	1863	36546		2631	15230	0461	00353	1780
0200	1813	36493		2640	15219	0505	00438	1707
0225	1791 B	3648 B		2644	15217	0547	00531	1673
0250	1784	36482		2646	15219	0589	00633	1663
0300	1711 G	3636 D		2655	15204	0671	00864	1595
0400	1488 D	3595 B		2675	15147	0824	01408	1428
0500	1218 I	3554 E		2699	15070	0957	02016	1202
0600	0964 H	3524 E		2722	14992	1067	02636	0990
0700	0742	3506 C		2742	14923	1157	03230	0786
0800	0596	3502 D		2759	14881	1228	03773	0617

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
1000	0455 I	3501 C		2776	14857	1337	04766	0460
1200	0412 I	3501 B		2780	14873	1427	05783	0429
1500	0301 I	3496 E		2788	14876	1545	07405	0346

C-REF-NO 005	YR 1965	DEPTH 4645	WAVES 1 09X2	AIR T 23.3	VIS 7
CONS. NO 026	MONTH 9	MXSAMPD 08	WAVES 2 09XX	WET B	STN 030
LAT 41-495N	DAY 09	NO.DPTH 12	WND-DIR 040	WW-CODE 02	
LON 58-000W	HR 02.5	W-COLOR	WND-SPD 07	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1003.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
025	0000	247 B	36133		2431	15354
025	0007	2438	36059		2435	15347
025	0015	2439	36078		2436	15348
025	0022	2443	36098		2436	15351
025	0037	2455	36233		2443	15358
025	0056	2350	36683		2508	15341
025	0074	2206	36709		2552	15308
025	0105	2006	36630		2601	15259
025	0134	1902	36584		2624	15235
025	0153	1843	36537		2636	15221
025	0596	0716	35018		2743	14895
025	0761	0484	34939		2767	14828

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	2470 B	36133		2431	15354	0000	00000	3625
0010	2436	3606 B		2436	15347	0036	00002	3584
0020	2442	36091		2436	15350	0072	00007	3582
0030	2454 B	36150		2437	15355	0108	00017	3580
0050	2393 B	3655 I		2485	15348	0176	00044	3127
0075	2198	36707		2554	15306	0246	00088	2484
0100	2033	3665 B		2595	15266	0304	00139	2104
0125	1929	36598		2618	15241	0354	00197	1886
0150	1852	36545		2634	15223	0400	00261	1745
0175	1766 B	3650 C		2652	15202	0442	00331	1582
0200	1685 C	3644 C		2668	15181	0480	00404	1441
*0225	1606 D	3639 D		2682	15161	0515	00479	1315
*0250	1529 D	3632 E		2694	15140	0546	00556	1201
*0300	1384 E	3618 E		2715	15100	0602	00712	1010
*0400	1121 E	3586 F		2742	15024	0692	01029	0768
*0500	0896 C	3546 D		2750	14954	0766	01367	0692
0600	0727 G	3520 I		2756	14902	0833	01747	0642
0700	0566 C	3502 I		2763	14853	0894	02151	0560

C-REF-NO 005	YR 1965	DEPTH 4681	WAVES 1 36X3	AIR T 16.6	VIS 7
CONS. NO 027	MONTH 9	MXSAMPD 18	WAVES 2 36X3	WET B	STN 031
LAT 42-000N	DAY 10	NO.DPTH 17	WND-DIR 360	WW-CODE 02	
LON 57-210W	HR 08.9	W-COLOR	WND-SPD 06	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1017.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
089	0000	235 B	35665		2431	15320
089	0009	2292	35364		2425	15303
089	0019	2295	35636		2445	15309
089	0028	2294	35644		2446	15310
089	0046	1861	35675		2565	15198
089	0070	1625	35702		2625	15133
089	0093	1552	35756		2646	15115
089	0139	1413	35704		2672	15078
089	0181	1352	35661		2682	15064
089	0227	1248	35611		2699	15036
089	0269	1128	35386		2704	14999
089	0355	0935	35192		2723	14941
089	0440	0710	35019		2744	14867
089	0699	0433	34870		2767	14796
089	0876	0410	34913		2773	14816
089	1326	0379	34918		2776	14879
089	1800	0374	34959		2780	14957

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	2350 B	35665		2431	15320	0000	00000	3622
0010	2291	3538 E		2427	15303	0037	00002	3665
0020	2299	3564 B		2444	15310	0073	00007	3504
0030	2255 G	35647		2457	15301	0107	00016	3384
0050	1802 C	35679		2580	15182	0164	00038	2220
0075	1603 B	35715		2631	15127	0214	00069	1747
0100	1528	3576 B		2651	15108	0255	00106	1564
0125	1451	3573 C		2666	15088	0293	00150	1426
0150	1396 B	35693		2675	15073	0328	00199	1348
0175	1360	35667		2680	15066	0361	00255	1302
0200	1313	3565 C		2689	15054	0393	00316	1227
0225	1253	35615		2698	15038	0423	00381	1146
0250	1183	3549 D		2702	15016	0451	00450	1109
0300	1056 B	3529 D		2710	14977	0506	00603	1040
0400	0814 B	35095		2735	14901	0599	00933	0812
0500	0606 E	3495 C		2753	14835	0672	01268	0641
0600	0485 F	3488 D		2762	14801	0733	01606	0552
0700	0433	34870		2767	14796	0786	01962	0505
0800	0411 C	3489 B		2771	14804	0836	02345	0476

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
1000	0398	3492 B		2775	14832	0930	03217	0456
1200	0384	3492 B		2776	14860	1023	04264	0456
1500	0372	3496 E		2780	14906	1159	06163	0442

C-REF-NO 005	YR 1965	DEPTH 4480	WAVES 1 36X3	AIR T 18.3	VIS 7
CONS. NO 028	MONTH 9	MXSAMPD 16	WAVES 2 36X3	WET B	STN 032
LAT 42-110N	DAY 10	NO.DPTH 16	WND-DIR 350	WW-CODE 02	
LON 56-420W	HR 14.4	W-COLOR	WND-SPD 05	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1020.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
144	0000	216 B	34928		2429	15263
144	0008	2090	34879		2445	15245
144	0016	2088	34879		2445	15246
144	0025	2090	34880		2445	15248
144	0059	1498				
144	0077	1480	35734		2660	15089
144	0116	1384	35639		2673	15063
144	0156	1316	35598		2684	15047
144	0194	1230	35515		2695	15023
144	0235	1147	35425		2704	15000
144	0313	0964				
144	0392	0772	35029		2736	14883
144	0630	0473	34910		2766	14802
144	0786	0448	34956		2772	14818
144	1195	0390	34937		2777	14862
144	1638	0373	34943		2779	14929

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	2160 B	34928		2429	15263	0000	00000	3639
0010		34877		2446	15245	0036	00002	3487
0020	2093 B	34877		2444	15248	0071	00007	3508
0030	2010 I	3492 D		2470	15228	0105	00016	3266
0050	1665 I	3515 E		2573	15135	0161	00038	2289
0075	1477 B	35680		2656	15087	0209	00067	1504
0100	1426 B	3571 I		2670	15076	0245	00099	1382
0125	1368	35629		2676	15060	0279	00139	1333
0150	1326	35604		2683	15049	0312	00185	1274
0175	1274	35559		2690	15036	0343	00237	1212
0200	1218	35502		2696	15020	0373	00295	1155
0225	1167	35447		2702	15006	0402	00357	1108
0250	1113	3538 B		2707	14990	0429	00423	1063
0300	0996	3525 E		2717	14955	0480	00568	0969
0400	0756	35018		2737	14878	0569	00881	0783
0500	0591 B	3493 E		2753	14828	0640	01209	0638
*0600	0490	3490 B		2763	14804	0700	01543	0540
0700	0453 C	3493 B		2769	14805	0752	01889	0488
0800	0446	34957		2772	14819	0800	02262	0467
1000	0414	3496 C		2776	14840	0893	03119	0449

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
1200	0394 B	3497 H		2779	14865	0982	04128	0432
1500	0376	3496 D		2780	14907	1116	05987	0445

C-REF-NO 005	YR 1965	DEPTH 4059	WAVES 1 36X2	AIR T 18.3	VIS 7
CONS. NO 029	MONTH 9	MXSAMPD 19	WAVES 2 36X3	WET B	STN 033
LAT 42-210N	DAY 10	NO.DPTH 17	WND-DIR 360	WW-CODE 01	
LON 56-030W	HR 19.7	W-COLOR	WND-SPD 05	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1020.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
197	0000	177 B	32650		2357	15128
197	0009	1686	32560		2370	15103
197	0018	1662	32560		2375	15098
197	0028	1354	32777		2459	15004
197	0046	0902	34070		2641	14863
197	0069	0716	34324		2689	14799
197	0092	0808	34670		2702	14843
197	0136	0718	34622		2712	14815
197	0179	0672	34670		2722	14805
197	0223	0572	34636		2732	14771
197	0267	0558	34711		2740	14774
197	0356	0499	34752		2750	14765
197	0444	0406	34752		2760	14741
197	0713	0436	34945		2773	14801
197	0893	0416	34953		2775	14822
197	1348	0374	34933		2778	14881
197	1890	0362	34953		2781	14967

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1770 B	32650		2357	15128	0000	00000	4331
0010	1688 C	32553		2369	15104	0043	00002	4219
0020	1611 E	32580		2389	15082	0084	00008	4034
0030	1294	3292 I		2481	14986	0120	00018	3152
0050	0844 B	3417 I		2657	14843	0167	00035	1479
0075	0731 F	3442 D		2694	14807	0200	00055	1135
0100	0803 E	3469 I		2705	14843	0227	00080	1039
0125	0755 F	3467 I		2710	14828	0253	00109	0989
0150	0704 B	3464 B		2715	14812	0277	00144	0950
0175	0676	34665		2721	14806	0301	00182	0896
0200	0622 C	3465 C		2727	14788	0323	00224	0839
0225	0571	34639		2733	14771	0343	00269	0788
0250	0559 B	3468 B		2737	14771	0362	00316	0748
0300	0541	3474 B		2744	14773	0399	00418	0688
0400	0451 B	34753		2756	14753	0463	00646	0583
0500	0396 H	3479 E		2764	14746	0518	00898	0504
0600	0399 I	3486 G		2770	14765	0567	01174	0464
*0700	0430 B	3494 B		2772	14796	0613	01484	0454
0800	0428	34955		2774	14812	0659	01836	0447

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
1000	0404	34949		2776	14835	0749	02670	0442
1200	0385	34941		2778	14861	0839	03687	0444
1500	0369	3495 C		2780	14904	0974	05565	0443

C-REF-NO 005	YR 1965	DEPTH 4151	WAVES 1 36X2	AIR T 16.6	VIS 7
CONS. NO 030	MONTH 9	MXSAMPD 20	WAVES 2 36X4	WET B	STN 034
LAT 42-320N	DAY 11	NO.DPTH 17	WND-DIR 360	WW-CODE 02	
LON 55-270W	HR 00.9	W-COLOR	WND-SPD 02	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1021.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
009	0000	176 B	32720		2365	15126
009	0010	1700	32711		2378	15110
009	0020	1674	32812		2392	15105
009	0030	1612	32824		2407	15087
009	0050	0428	33492		2658	14668
009	0074	0636	34279		2696	14768
009	0099	0688	34486		2705	14795
009	0149	0593	34529		2721	14766
009	0198	0536	34580		2732	14752
009	0248	0574	34779		2743	14778
009	0297	0475	34724		2751	14745
009	0396	0462	34842		2761	14758
009	0494	0458	34917		2768	14773
009	0788	0422	34959		2775	14807
009	0983	0403	34955		2777	14832
009	1473	0375	34950		2779	14902
009	1963	0352	34960		2782	14975

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1760 B	32720		2365	15126	0000	00000	4257
0010	1700	32711		2378	15110	0042	00002	4131
0020	1674	32812		2392	15105	0083	00008	4003
0030	1612	32824		2407	15087	0122	00018	3861
0050	0428	33492		2658	14668	0176	00038	1468
0075	0640	34294		2696	14770	0209	00058	1111
0100	0687	34489		2706	14795	0236	00082	1030
0125	0653 F	3454 G		2714	14786	0261	00111	0952
0150	0591	34529		2721	14766	0284	00144	0885
0175	0555	3455 B		2727	14755	0305	00180	0831
0200	0538	34589		2733	14753	0326	00219	0783
0225	0559 E	3469 F		2738	14767	0345	00260	0733
0250	0571	34778		2744	14777	0363	00304	0687
0300	0473	34726		2751	14745	0396	00396	0617
0400	0462	34846		2762	14758	0453	00601	0526
0500	0457	34920		2768	14774	0504	00834	0477
0600	0447	3495 C		2772	14786	0551	01099	0451
*0700	0434	3496 C		2774	14798	0596	01399	0438
0800	0421	34959		2775	14809	0640	01740	0435

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
1000	0402	34955		2777	14834	0728	02557	0435
1200	0389	34951		2778	14862	0817	03562	0440
1500	0370 B	34951		2780	14905	0951	05431	0443
2000	0251	34961		2783	14982	1178	09536	0451

C-REF-NO 005 YR 1965 DEPTH 4334 WAVES 1 27X2 AIR T 16.6 VIS 7
 CONS. NO 031 MONTH 9 MXSAMPD 19 WAVES 2 26X3 WET B STN 035
 LAT 42-420N DAY 11 NO.DPTH 14 WND-DIR 270 WW-CODE 02
 LON 54-450W HR 05.4 W-COLOR WND-SPD 02 CLD-TPE
 MARSD SQ 150 C/I 1810 W-TRNSP BARO 1021.0 CLD-AMT HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
064	0000	178 B	32646		2354	15131
064	0010	1740	32640		2363	15121
064	0020	1724	32647		2368	15118
064	0030	0705	33285		2608	14775
064	0050	0506	33585		2657	14702
064	0075	0457	33875		2685	14690
064	0099	0675	34477		2706	14790
064	0149	0752	34817		2722	14833
054	0289	0541	34758		2746	14771
054	0387	0516	34871		2758	14779
054	0681	0460	34990		2773	14806
054	0877	0417	34958		2776	14820
054	1367	0383	34946		2778	14888
054	1857	0360	34993		2784	14961

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1780 B	32646		2354	15131	0000	00000	4357
0010	1740	32640		2363	15121	0043	00002	4273
0020	1724	32647		2368	15118	0086	00009	4235
0030	0705	33285		2608	14775	0117	00016	1940
0050	0506	33585		2657	14702	0152	00030	1480
0075	0457	33875		2685	14690	0185	00051	1213
0100	0679	3449 B		2707	14792	0214	00076	1019
0125	0752 I	3474 I		2716	14828	0238	00104	0934
0150	0751	34819		2722	14833	0261	00136	0881
0175	0729 I	3485 I		2728	14829	0283	00172	0828
*0200	0700 I	3487 I		2734	14821	0303	00211	0782
*0225	0664 I	3486 I		2738	14811	0322	00253	0741
*0250	0621 I	3484 I		2742	14798	0340	00298	0708
0300	0536	34768		2747	14771	0375	00395	0659
0400	0513	34882		2759	14780	0436	00613	0560
0500	0493	3495 B		2766	14789	0490	00859	0498
*0600	0475	3498 B		2771	14798	0538	01132	0461
0700	0456	34989		2774	14807	0584	01438	0445
0800	0433	3498 B		2775	14814	0629	01783	0439
1000	0403 B	34948		2776	14835	0718	02609	0442
1200	0388 B	34941		2777	14862	0808	03630	0447
1500	0362 D	3495 B		2780	14901	0942	05495	0435

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Local cruise designation:	BIO 2366
Cruise period:	August 16 - August 28, 1966
Officer-in-Charge:	T. R. Foote
Observers:	E. A. Lewis
	J. E. Kirby
	C. C. Cunningham
	T. A. Grant

MARINE SCIENCES BRANCH

Bedford Institute of Oceanography, Dartmouth, N. S.

SECTION I

Description of data collection procedures



"SACKVILLE"

Fisheries Research Board

CRUISE NO. BIO 2366 SACKVILLE
 CNAV SACKVILLE
 16-28 AUG 66

- OCEANOGRAPHIC STATIONS
- PARACHUTE & RADIO DRIFT DROGUE RELEASES
- ▲ MOORED CURRENT METERS (THETA)
- MOORED WATER BOTTLES (")

Adjoining Chart 4490

ATLANTIC

OCEAN

Explosives
 Diving Ground

INTRODUCTION

The purpose of this cruise was to study the drift pattern through Cabot Strait by utilizing parachute drogues and radio drift buoys; and by measuring temperature and salinity versus depth along two sections bordering the Cabot Strait area.

The above measurements were to coincide with and are to supplement the current data obtained by MV Theta (CODC Ref. No. 10-66-003) from a string of current meters moored at eight mile intervals across the strait from Cape North to Cape Ray. In addition, simultaneous temperature- salinity data were to be obtained by Theta during this period by use of water bottle stations moored on the Cape North - Cape Ray line at positions between the current meter stations.

EXTRACT OF CRUISE LOG

Depart	Dartmouth, N. S.	16 August 1966
Arrive	Dartmouth, N. S.	28 August 1966

OBSERVATIONAL PROCEDURES

Temperature and salinity data were collected in single casts using standard sampling procedures and depths. Two Richter and Weise protected thermometers were used on Knudsen type sampling bottles and one unprotected thermometer was used on bottles at 300 metres and deeper.

Water samples were returned to the Bedford Institute of Oceanography for salinity determinations on the Autolab Salinometer.

Drift patterns were measured by the use of parachute drogues and radio drift buoys tracked by ships radar and D.F. radio receiver.

Bathythermograph lowerings were made just prior to the oceanographic casts and the data were processed in the BT - aperture card format of CODC (Sauer, 1964).

PERSONNELAt Sea:

T. R. Foote	Officer-in-Charge
E. A. Lewis	
J. E. Kirby	
C. C. Cunningham	
T. A. Grant	
W. B. Fraser	
H. G. Miller	

Data Analyses:

Compilation of Data	T. R. Foote
Salinity Determinations	B. Carson

SECTION II

Description of the machine-generated data record

INTRODUCTION

This section applies to the machine processing phase of the data reduction and computation.

The oceanographic data previously recorded on CODC data summary forms, a sample of which is shown on the next page, are transferred to punch-cards for subsequent electronic data processing on an IBM 1620 computer, using CODC's OCEANS II program. In addition to computing routine derived quantities, the program carries out unit and format conversions, range checks, plausibility tests, internal editing, and if required, interpolation at standard oceanographic depths. When interpolations are carried out, additional derived values are computed.

After the data have been processed, the data record is prepared using an IBM 1401 computer configuration with the OCEAN REPORT III program, which provides for pre-edited high speed print-out on continuous direct-image masters. These masters subsequently yield the required volume of copies for distribution.

Provision has been made to enter an "estimate of precision" for each observed variable selected for interpolation at standard oceanographic depths. The precision depends on the instrument and/or technique used to determine the variable. A standard precision stated as a **standard deviation** (σ) can be determined for each instrument or technique under routine field conditions by making duplicate determinations of the variables for a homogeneous sample of sea water. These standard deviations are given for each cruise under "GENERAL INFORMATION" in section III of the data record.

The **measurement error estimate** of a specific observation in this data record, is stated as a multiple of the standard deviation derived as above, and entered in a column immediately to the right of the reported variable. In order to distinguish it from an additional decimal digit, the measurement error estimate is recorded alphabetically, (i.e., $1\sigma = A$, $2\sigma = B$, etc.; in this data record "A" is suppressed).

An option is provided with respect to the measurement of the salinity variable. If observed to three decimal digits, the last digit takes the place of the measurement error estimate.

In the past, a number of methods for both manual and machine interpolation have been developed. Studies and comparisons of the several methods have shown that no single method is universally acceptable. The manual methods are the most elaborate and flexible, but often require subjective decisions. In machine interpolation, all the present methods fail to yield acceptable results under some circumstances. Hence, it is considered necessary to qualify interpolated values by stating an "**interpolation error estimate**" derived from the particular interpolation formula used. There are two purposes in stating the error estimates; **first**, to give an indication of the quality of the interpolated data; **second**, to allow the oceanographer to redesign his observational procedures in order to reduce interpolation errors in future observations.

The interpolation scheme chosen for the OCEANS II program consists of a combination of two 3-point interpolations using the Lagrangian interpolation polynomial, as recommended by Rattray (1962). A parabola is fitted through three values of a given variable (T, S, O_2) considered as a function of depth. The two interpolation parabolas require a total of four points (observed depths). The middle points are common to both parabolas. The average of the two values obtained from the parabolas at standard depth is taken as the interpolated value, and a function of their difference as an estimate of the interpolation error.

This function combined with the "**measurement error estimate**" comprises the "**combined measurement and interpolation error estimate**". It is expressed as a multiple of the standard deviation of measurement (σ) under normal routine field conditions by:

CANADIAN OCEANOGRAPHIC DATA CENTRE

1 IDENT. CODE		2 LATITUDE (N = +)		3 LONGITUDE (W = +)		5 DATE		6 TIME		7 DEPTH		9 NO. DEPTHS OBS'D.		VESSEL	
COUNTRY INST.		DEC.° MIN. 1/10		DEC.° MIN. 1/10		YEAR MONTH DAY		HOURS G.M.T. 1/10		TO BOTTOM				ENTERED BY CHECKED BY	
1	8														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
10	WATER	11 WAVES I	12 WAVES II	13 WIND	14 BAROMETER	15 AIR TEMP.	16 WET BULB	17 W.W. CODE	18 CLOUD TYPE	19 HOURS AFTER H.W.	20 UNASSIGNED	21 CRUISE REFERENCE NUMBER	22 CONSEC. NUMBER	23	24 CARD TYPE
COLOUR TRANS.	DW DW PW KW	DW DW PW HW	DIR.	DIR.	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO	TO
36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67
68	69	70	71	72	73	74	75	76	77	78	79	80			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96
97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112
113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128
129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144
145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176
177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192
193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208
209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224
225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240
241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256
257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272
273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288
289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304
305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320
321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336
337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352
353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368
369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384
385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400
401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416
417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432
433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448
449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464
465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480
481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496
497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512
513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528
529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544
545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560
561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576
577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592
593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608
609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624
625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640
641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656
657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672
673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688
689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704
705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720
721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736
737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752
753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768
769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784
785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800
801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816
817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832
833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848
849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864
865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880
881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896
897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912
913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928
929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944
945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960
961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976
977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992
993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008
1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024
1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040
1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056
1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072
1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088
1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104
1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120
1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136
1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152
1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168
1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184
1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200
1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216
1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232
1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248
1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264
1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280
1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296
1297	1298	1299	1300	1301											

$$\frac{\sigma_i}{\sigma} = \left\{ \frac{(\Delta V_i)^2}{\sigma^2} + \sum_{n=j-2}^{j+1} (\gamma_n)^2 \left(\frac{\sigma_n}{\sigma} \right)^2 \right\}^{1/2}, \text{ where}$$

σ = Standard deviation of the combined error estimates at standard oceanographic depth,
 ΔV_i = the interpolation error estimate of variable "V" at standard oceanographic depth = $1/3 (\bar{V}_{i_1} - V_{i_2})$
 γ = Interpolation polynomial coefficient.

Z_j = Observed depth.

Z_i = Standard oceanographic depth, such that: $Z_{j-2} < Z_{j-1} < Z_i < Z_j < Z_{j+1}$

The integral part of the fraction $\frac{a_i}{\sigma}$, if ≥ 2 , is reported in this Data Record following the interpolated variable. It represents the **combined measurement and interpolation error estimate**. In order to distinguish it from an additional decimal digit, it is recorded alphabetically (e.g.: 2 as "B", 3 as "C", etc.).

With respect to the interpolated value of the salinity variable if reported to three decimal digits, the **interpolation error estimate** is given only when $\frac{a_i}{\sigma} \geq 2$ (the salinity is then recorded to two decimal places). If less than 2, the mean obtained from the two interpolation parabolas is reported to three decimal places.

EXPLANATION OF DATA RECORD HEADINGS

MASTER HEADINGS

(1) C-REF-NO	(6) YR	(11) DEPTH	(16) WAVES 1	(21) AIR T	(26) VIS
(2) CONS. NO	(7) MONTH	(12) MXSAMPD	(17) WAVES 2	(22) WET B	(27) STN
(3) LAT	(8) DAY	(13) NO. DPTH	(18) WND-DIR	(23) WW-CODE	
(4) LON	(9) HR	(14) W-COLOR	(19) WND-FCE	(24) CLD-TPE	
(5) MARSD SQ	(10) C/I	(15) W-TRNSP	(20) BARO	(25) CLD-AMT	(28) HW

(1) CRUISE REFERENCE NUMBER:

Assigned by the Institute. Commences with 001 at the beginning of each year (effective Jan. 1, 1963). Prior to that date the CRN was a number designated by CODC.

(2) CONSECUTIVE NUMBER:

Indicates the chronological order in which the stations were occupied.

(3) LATITUDE:

Indicate the position of the platform at the time of observation.

(4) LONGITUDE:

(5) MARSDEN SQUARE: Designates the geographic area code of the observation (see Marsden square chart).

(6) YEAR:

(7) MONTH:

(8) DAY:

(9) HOUR:

The time (Greenwich Mean Time) at which the surface environmental data were recorded. It is reported to tenths of hours (Table 1).
If an "X" precedes the value for HOUR, (prior to Jan. 1, 1963) it indicates that the reported time is doubtful.

(10) COUNTRY/INSTITUTE:

The International Geophysical Year (IGY) Country Code/Institute Code - see Table 11.

(11) DEPTH:

The sounding reported in metres. If corrected, this is stated in the "GENERAL INFORMATION" chapter of section III. Charted depths are preceded by the letter "C".

(12) MAXIMUM

SAMPLING DEPTH: A code to indicate the deepest sampling depth (used for high speed sorting).

00 m - 50 m = 00

51 m - 150 m = 01

151 m - 250 m = 02

etc.

- (13) NUMBER OF DEPTHS: The number of levels observed (this is entered to initiate a computer safety check, guarding against the loss of punch-cards).
- (14) WATER COLOUR: A code based on the percentage of yellow (see table 2 and Note under FIELD "15" below).
- (15) WATER TRANSPARENCY: The depth in metres at which a Secchi disc (white disc, 30 cm. in diameter) just disappears from view, or the optical density expressed in percentage;
- NOTE: The "GENERAL INFORMATION" chapter in section III of the data record will state which method was used.
- (16) WAVES 1
($d_W d_W P_W H_W$ -code): The direction, period and height of the **wind-propagated** wave system. (See Tables 3, 4 and 5). Ref: World Meteorological Organization Codes 0885, 3155, 1555.
- (17) WAVES 2
($d_W d_W P_W H_W$ -code): The direction, period and height of the predominant **non-wind-propagated** wave system. (See Tables 3, 4 and 5). Ref: World Meteorological Organization Codes 0885, 3155, 1555.
- (18) WIND DIRECTION: The true direction to the nearest 10 degrees from which the wind is blowing (wind direction 990 means:—wind variable or direction unknown).
- (19) WIND FORCE
(WIND-FCE): Beaufort notation (See Table 6).
- WIND SPEED
(WIND-SPD): Anemometer reading reported in metres per second. Instrument height reported in "GENERAL INFORMATION" chapter of section III.
- (20) BAROMETER: The barometric pressure reported in millibars; the "GENERAL INFORMATION" chapter in Section III of the data record will state the type of instrument used.
- (21) AIR TEMPERATURE: In degrees Celsius.
- (22) WET BULB: In degrees Celsius.
- (23) ww CODE: Present Weather Code (See Table 7). Ref: WMO Code 4677
- (24) CLOUD TYPE: The type of predominating clouds (See Table 8). Ref: WMO Code 0500.
- (25) CLOUD AMOUNT: The sky coverage in eighths (See Table 9) Ref: WMO Code 2700
- (26) VISIBILITY: Visibility at the surface (See Table 10). Ref: WMO Code 4300.
- (27) STATION: A station reference number, assigned by the institute prior to, or during the survey.
- (28) HOURS AFTER HIGH WATER: Indicates the state of the tide for nearshore observations.

OBSERVED DATA HEADINGS

(1) GMT	(2) DEPTH	(3) TEMP	(4) SAL	(5) OXYGEN	(6) SGMT
(7) SOUND	(8) PO_4	(9) -P-	(10) NO_2	(11) NO_3	(12) SiO_2
				(13) pH.	

NOTE: Headings (1) to (7) will always be present. Headings (8) to (13) appear only when one or more additional chemical entries were made.

(1) G.M.T.: The Greenwich Mean Time of (in-situ) thermometer inversion and sea water sample collection.

When a multiple cast was initiated prior to and continued after midnight, the times indicated are uninterrupted by the change of day and appear beyond 24.0 hours. This will be accompanied by a statement: "MULTIPLE CAST CONTINUED NEXT DAY", which is printed following the last level of observed values.

(2) DEPTH: The depth in metres at the reversal time of deepest cast.

(3) TEMPERATURE: Temperatures from deepsea reversing thermometers, read to 0.01° C. Surface temperature measurement procedures are described in the chapter "OBSERVATION PROCEDURES" of section I, and/or the "GENERAL INFORMATION" chapter of section III. An alphabetical character following the temperature value represents the measurement error estimate referred to in the INTRODUCTION to this section.

(4) SALINITY: Salinity as defined by: $S = 0.03 + 1.805 C1\%$, reported in:

- a. 1/100 parts per 1000, or
- b. 1/1000 parts per 1000.

In case a: an alphabetical character following the value is the measurement error estimate as referred to under (3).

In case b: no error estimate indication is provided for, but an additional decimal digit takes its place.

(5) OXYGEN: The concentration of dissolved oxygen expressed in millilitres per litre to 2 decimal places.

An alphabetical character following the value is the measurement error estimate as referred to under (3).

(6) SIGMA-T: The specific gravity anomaly as defined by: $(\text{Specific gravity} - 1) \times 10^3$ (e.g., σ_t reported as 2456, reads 24.56, and corresponds to a specific gravity of 1.02456).

(7) SOUND: The sound velocity is reported in m/sec. to 1 decimal place (e.g., 1437.9 m/sec.). The computation is carried out using Wilson's formula (1960), expressed in terms of temperature, salinity and total pressure.

- (8) PO_4 Phosphate-Phosphorus reported to hundredths of microgram-atoms per litre.
- (9) -P- Total Phosphorus reported to hundredths of microgram-atoms per litre.
- (10) NO_2 Nitrite-Nitrogen reported to hundredths of microgram-atoms per litre — No dissolved nitrogen included —
- (11) NO_3 Nitrate-Nitrogen reported to tenths of microgram-atoms per litre.
- (12) SiO_2 Silicate-Silicon reported in whole microgram-atoms per litre.
- (13) pH The pH value.

NOTE: "TRC" (trace) is reported when a chemical entry has a value less than the standard deviation of measurement for that particular variable.

INTERPOLATED DATA HEADINGS

(1) DEPTH	(2) TEMP	(3) SAL	(4) OXYGEN	(5) SGMT	(6) SOUND
(7) DELTA-D	(8) POT-EN	(9) SVA.			

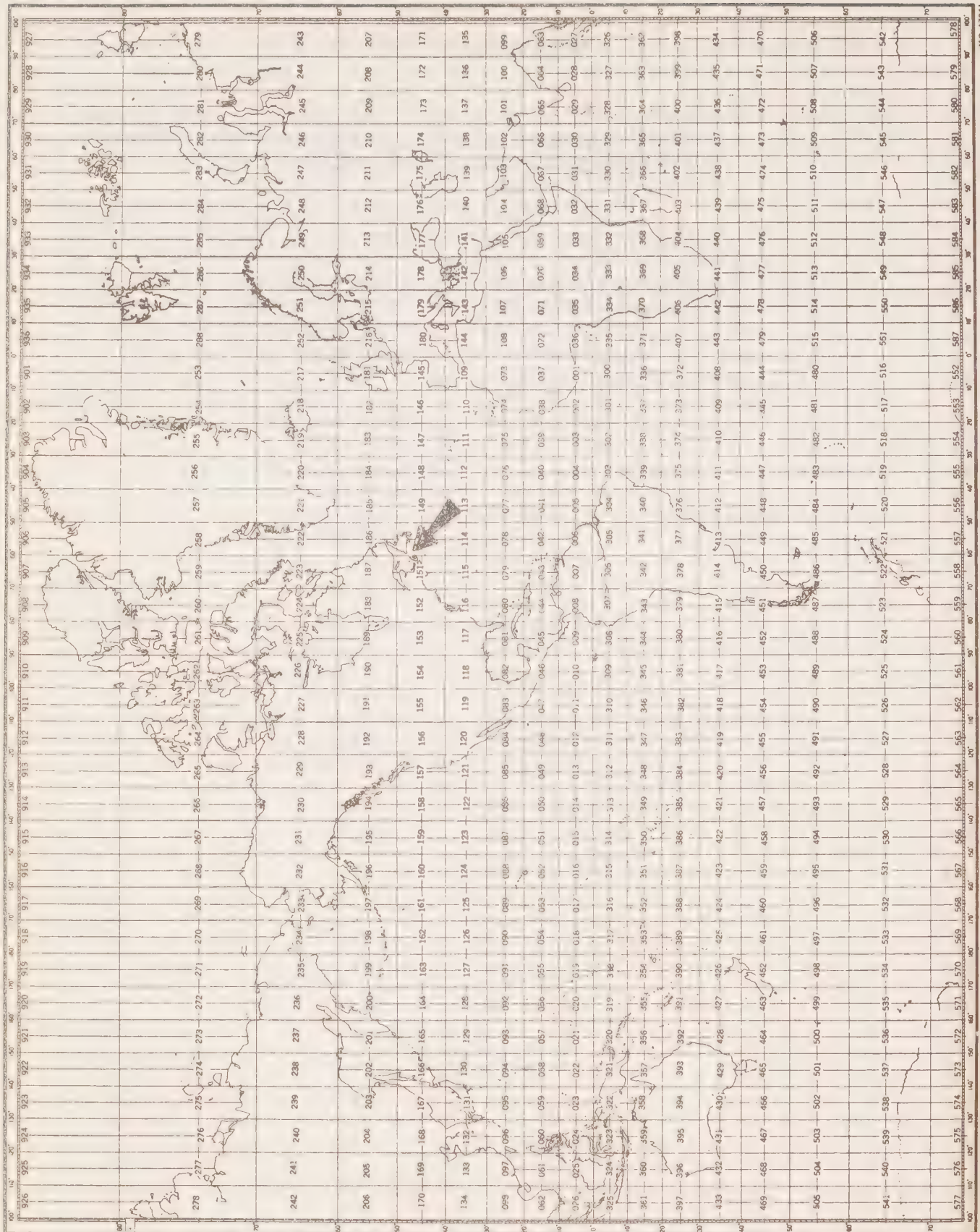
- (1) DEPTH: Standard Oceanographic Depth in whole metres, as well as additional depths: 125, 175, 225, 3500, 4500, 5500, 6500, 7500, 8500, 9500.
- (2) TEMPERATURE: Interpolated value at standard depth, followed by the combined measurement and interpolation error estimate (see "INTRODUCTION" to section II of the data record).
- (3) SALINITY:
- A. The reported salinity values are measured to three decimal places.
 - (i) the interpolation error estimate is less than twice the standard deviation of measurement
 - the interpolated value is reported to three decimal places (e.g., 30.139).
 - (ii) the interpolation error estimate is equal to or greater than twice the standard deviation of measurement.
 - the interpolated value is reported to two decimal places, and followed by the interpolation error estimate (e.g., 29.23 C).
 - B. The reported salinity values are measured to two decimal places and followed by the measurement error estimate.
 - the interpolated value is reported to two decimal places, and followed by the combined measurement and interpolation error estimate (e.g., 30.59 B).
- (4) OXYGEN: Interpolated value at standard depth, followed by the combined measurement and interpolation error estimate (see "Introduction" to section II of the data record).

- (5) SIGMA-T: Computed from temperature and salinity values at standard oceanographic depth.
- (6) SOUND VELOCITY: Computed from temperature, salinity and total pressure values at standard oceanographic depth, using Wilson's formula (1960).
- (7) DELTA-D: The geo-potential anomaly as defined by:
- $$\Delta D = \int_0^P \delta dp$$
- ΔD is expressed in dynamic metres (10^5 ergs/gram) and recorded to three decimal places (e.g., 2.345 dyn. metres).
- (8) POTENTIAL ENERGY ANOMALY: The Potential energy anomaly χ as defined by:
- $$\chi = 1/g \int_0^P p \delta dp = \int_0^Z \rho p \delta dz$$
- χ is expressed in units of 10^8 ergs/cm² and recorded to two decimal places (e.g., 116.44).
- (9) SPECIFIC VOLUME ANOMALY: The specific volume anomaly as defined by:
- $$\delta = \alpha - \alpha_{35.0.P}$$
- δ is expressed in ml/gr, and conventionally reported as $10^5 \delta$, to one decimal place (i.e., δ reported as 1234, reads 123.4, and corresponds to a specific volume anomaly of 0.001234 ml/gr.).

SPECIAL CHARACTERS

‡ (Record mark): is used to indicate inconsistencies which are printed in an area below the "Observed Data". A corresponding record mark at the extreme left hand side indicates the level at which the inconsistency occurs

* (Asterisk): this character may occur in the **interpolated** portion of the data record. It is printed at the extreme left hand side of the page, when three or more standard depth levels fall within any one **observed depth interval**. The **third**, and all consequent levels are preceded by the asterisk to indicate that more than **two** machine interpolations were carried out, utilizing the same set of interpolation parabolas. The asterisk will also appear when the last standard depth is an extrapolation and there are at least two interpolations between the last two observed depths.



MARS DEN SQUARE CHART

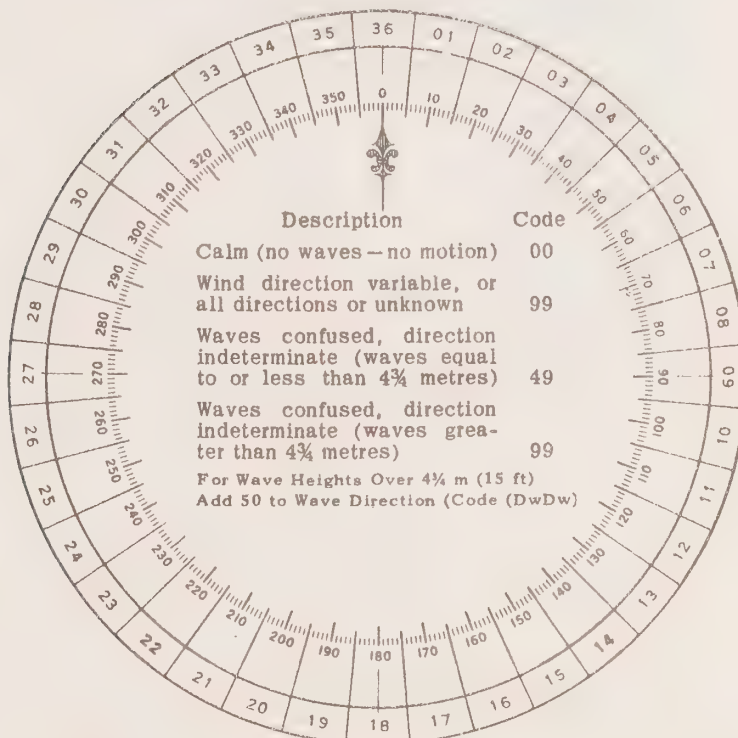
Table 1
CONVERSION
MINUTES TO $\frac{1}{10}$ HRS.

Minutes	Tenths Hrs.
00-03	0
04-08	1
09-15	2
16-20	3
21-27	4
28-32	5
33-39	6
40-44	7
45-51	8
52-56	9
57-59	0 (next HR.)

Table 2
WATER COLOR CODE
Based on Percentage Yellow

Code:	Description
00	Deep Blue
10	Blue
20	Greenish Blue
30	Bluish Green
40	Green
50	Light Green
60	Yellowish Green
70	Yellow Green
80	Green Yellow
90	Greenish Yellow
99	Yellow

Table 3. DIRECTION CODE (dd)



NOTE:

Always use the true direction from which the wind is blowing, or the direction from which Waves I (sea), or Waves II (swell) come.

Table 4. PERIOD OF THE WAVES (P_w)
(Measure to the Nearest Second)

Code:	Period in Seconds:	Code:	Period in Seconds:
2	5 sec. or less	8	16 or 17 sec.
3	6 or 7 sec.	9	18 or 19 sec.
4	8 or 9 sec.	0	20 or 21 sec.
5	10 or 11 sec.	1	Over 21 sec.
6	12 or 13 sec.	X	Calm, or period not determined
7	14 or 15 sec.		

Table 5. HEIGHT OF THE WAVES (H_w)

- The average value of the wave height (vertical distance between trough and crest) is reported, as obtained from the larger well formed waves of the wave system being observed.
- Each code figure provides for reporting a range of heights. For example: 1 = $\frac{1}{4}$ m (1 ft) to $\frac{3}{4}$ m ($2\frac{1}{2}$ ft); 5 = $2\frac{1}{4}$ m (7 ft) to $2\frac{3}{4}$ m (9 ft); 9 = $4\frac{1}{4}$ m ($13\frac{1}{2}$ ft) to $4\frac{3}{4}$ m (15 ft), etc.
- If a wave height comes exactly midway between the heights corresponding to two code figures, the lower code figure is reported; e.g. a height of $2\frac{3}{4}$ m is reported by code figure 5.

Code			Code	
0	Less than ¼ m (1 ft)		0	5 m (16 ft)
1	½ m (1½ ft)		1	5½ m (17½ ft)
2	1 m (3 ft)		2	6 m (19 ft)
3	1½ m (5 ft)	Add 50 to Dw Dw	3	6½ m (21 ft)
4	2 m (6½ ft)		4	7 m (22½ ft)
5	2½ m (8 ft)		5	7½ m (24 ft)
6	3 m (9½ ft)		6	8 m (25½ ft)
7	3½ m (11 ft)		7	8½ m (27 ft)
8	4 m (13 ft)		8	9 m (29 ft)
9	4½ m (14 ft)		9	9½ m (30½ ft) or more
x	Height not determined			

Add
50
to
Dw Dw

Table 6. WIND FORCE CODE

The Beaufort force of the wind is estimated from the appearance of the sea surface, according to the table below. This table is only intended as a guide to show roughly what may be expected on the open sea, remote from land. Factors which must be taken into account are the "lag" effect between the wind increasing and the sea getting up; and the influence of "fetch", depth, swell, heavy rain and tide effect on the appearance of the sea. Estimation of the wind force by this method becomes unreliable in shallow water or when close inshore, owing to the tidal effect and the shelter provided by the land.

Code	Appearance of sea if fetch and duration of the blow have been sufficient to develop the sea fully	Description
00	Sea like a mirror	Calm
01	Ripples with the appearance of scales are formed, but without foam crests.	Light Air
02	Small wavelets; crests have a glassy appearance and do not break.	Light Breeze
03	Large wavelets; crests begin to break; foam of glassy appearance; perhaps scattered white horses.	Gentle Breeze
04	Small waves, becoming longer; fairly frequent white horses.	Moderate breeze
05	Moderate waves; many white horses are formed (chance of some spray)	Fresh Breeze
06	Large waves; white foam crests everywhere (probably some spray)	Strong Breeze
07	Sea heaps up and white foam from breaking waves begins to be blown in streaks along the direction of the wind.	Near Gale
08	Moderately high waves; edges of crests begin to break into the spindrift; foam is blown in well-marked streaks along the direction of the wind.	Gale
09	High waves; dense streaks of foam along wind; crests begin to topple, tumble and roll over; spray may affect visibility.	Strong Gale
10	Very high waves with long overhanging crests; foam in great patches blown in dense white streaks along wind; sea surface takes a white appearance; tumbling becomes heavy and shock-like; visibility affected.	Storm
11	Exceptionally high waves (medium sized ships may be lost to view behind waves); sea covered with long white patches of foam lying along the wind; everywhere edges of crests are blown into froth; visibility affected.	Violent Storm
12	Air is filled with foam and spray; sea completely white with driving spray; visibility seriously affected.	Hurricane

Table 7. PRESENT WEATHER

W.W. CODE

NO PRECIPITATION ON STATION AT TIME OF OBSERVATION

Code figure ww			
No meteors except photometeors	00	Cloud development not observed or not observable	
	01	Clouds generally dissolving or becoming less developed	
	02	State of sky on the whole unchanged	
Haze, dust, sand or smoke	03	Clouds generally forming or developing	
	04	Visibility reduced by smoke, e.g. veldt or forest fires, industrial smoke or volcanic ashes	
	05	Haze	
	06	Widespread dust in suspension in the air, not raised by wind at or near the station at the time of observation	
	07	Dust or sand raised by wind at or near the station at the time of observation, but no well developed dust whirl(s) or sand whirl(s), and no duststorm or sandstorm seen	
	08	Well developed dust whirl(s) or sand whirl(s) seen at or near the station during the preceding hour or at the time of observation, but no dustorm or sandstorm	
	09	Duststorm or sandstorm within sight at the time of observation, or at the station during the preceding hour	
	10	Mist	
	11	Patches of } shallow fog or ice fog at the station, whether on land or sea, not deeper than about 2 metres on land or 10 metres at sea	
	12		More of less continuous
	13	Lightning visible, no thunder heard	
	14	Precipitation within sight, not reaching the ground or the surface of the sea	
	15	Precipitation within sight, reaching the ground or the surface of the sea, but distant (i.e. estimated to be more than 5 km) from the station	
	16	Precipitation within sight, reaching the ground or the surface of the sea, near to, but not at the station	
	17	Thunderstorm, but no precepitation at the time of observation	
	18	Squalls	} at or within sight of the station during the preceding hour or at the time of observation
	19	Funnel clouds	

ww = 20 - 29		Precipitation, fog, ice fog or thunderstorm at the station during the preceding hour but not at the time of observation
20	Drizzle (not freezing) or snow grains	} not falling as shower(s)
21	Rain (not freezing)	
22	Snow	
23	Rain and snow or ice pellets, type (a)	
24	Freezing drizzle or freezing rain	
25	Shower(s) of rain	
26	Shower(s) of snow, or of rain and snow	
27	Shower(s) of hail, or of rain and hail	
28	Fog or ice fog	
29	Thunderstorm (with or without precipitation)	
ww = 30 - 39		Duststorm, sandstorm, drifting or blowing snow
30	Slight or moderate duststorm or sandstorm	- has decreased during the preceding hour
31		- no appreciable change during the preceding hour
32		- has begun or has increased during the preceding hour
33	Severe duststorm or sandstorm	- has decreased during the preceding hour
34		- no appreciable change during the preceding hour
35		- has begun or has increased during the preceding hour
36	Slight or moderate blowing snow	} generally low (below eye level)
37	Heavy drifting snow	
38	Slight or moderate blowing snow	} generally high (above eye level)
39	Heavy blowing snow	
ww = 40 - 49		Fog or ice fog at the time of observation
40	Fog or ice fog at a distance at the time of observation, but not at the station during the preceding hour, the fog or ice fog extending to a level above that of the observer	
41	Fog or ice fog in patches	
42	Fog or ice fog, sky visible	} has become thinner during the preceding hour
43	Fog or ice fog, sky invisible	
44	Fog or ice fog, sky visible	} no appreciable change during the preceding hour
45	Fog or ice fog, sky invisible	
46	Fog or ice fog, sky visible	} has begun or has become thicker during the preceding hour
47	Fog or ice fog, sky invisible	
48	Fog, depositing rime, sky visible	
49	Fog, depositing rime, sky invisible	

NO PRECIPITATION ON STATION AT TIME OF OBSERVATION

PRECIPITATION ON STATION AT TIME OF OBSERVATION

ww = 50 - 59 Drizzle

50	Drizzle, not freezing, intermittent	} slight at time of observation
51	Drizzle, not freezing, continuous	
52	Drizzle, not freezing, intermittent	} moderate at time of observation
53	Drizzle, not freezing, continuous	
54	Drizzle, not freezing, intermittent	} heavy (dense) at time of observation
55	Drizzle, not freezing, continuous	
56	Drizzle, freezing, slight	
57	Drizzle, freezing, moderate or heavy (dense)	
58	Drizzle and rain, slight	
59	Drizzle and rain, moderate or heavy	

ww = 60 - 69 Rain

60	Rain, not freezing, intermittent	} slight at time of observation
61	Rain, not freezing, continuous	
62	Rain, not freezing, intermittent	} moderate at time of observation
63	Rain, not freezing, continuous	
64	Rain, not freezing, intermittent	} heavy at time of observation
65	Rain, not freezing, continuous	
66	Rain, freezing, slight	
67	Rain, freezing, moderate or heavy	
68	Rain or drizzle and snow, slight	
69	Rain or drizzle and snow, moderate or heavy	

70 - 79 Solid precipitation not in showers

ww		
70	Intermittent fall of snow flakes	} slight at time of observation
71	Continuous fall of snow flakes	
72	Intermittent fall of snow flakes	} moderate at time of observation
73	Continuous fall of snow flakes	
74	Intermittent fall of snow flakes	} heavy at time of observation
75	Continuous fall of snow flakes	
76	Ice prisms (with or without fog)	
77	Snow grains (with or without fog)	
78	Isolated starlike snow crystals (with or without fog)	
79	Ice pellets, type (a)	

ww = 80 - 99 Showery precipitation, or precipitation with current or recent thunderstorm

80	Rain shower(s), slight	
81	Rain shower(s), moderate or heavy	
82	Rain shower(s), violent	
83	Shower(s) of rain and snow mixed, slight	
84	Shower(s) of rain and snow mixed, moderate or heavy	
85	Snow shower(s), slight	
86	Snow shower(s), moderate or heavy	
87	Shower(s) of snow pellets or ice pellets, type (b), with or without rain	} - slight
88	or rain and snow mixed	
89	Shower(s) of hail, with or without rain or rain and snow mixed, not associated with thunder	} - moderate or heavy
90		
91	Slight rain at time of observation	} thunderstorm during the preceding hour but not at time of observation
92	Moderate or heavy rain at time of observation	
93	Slight snow, or rain and snow mixed or hail at time of observation	
94	Moderate or heavy snow, or rain and snow mixed or hail at time of observation	} thunderstorm at time of observation
95	Thunderstorm, slight or moderate, without hail, but with rain and/or snow at time of observation	
96	Thunderstorm, slight or moderate, with hail at time of observation	
97	Thunderstorm, heavy, without hail, but with rain and/or snow at time of observation	} thunderstorm at time of observation
98	Thunderstorm, combined with duststorm or sandstorm at time of observation	
99	Thunderstorm, heavy, with hail at time of observation	

PRECIPITATION ON STATION AT TIME OF OBSERVATION

Table 8. CLOUD TYPE CODE

Code	Cloud Type	Code	Cloud Type
0	Cirrus Ci	5	Nimbostratus Ns
1	Cirrocumulus Cc	6	Stratocumulus Sc
2	Cirrostratus Cs	7	Stratus St
3	Alto cumulus Ac	8	Cumulus Cu
4	Altostratus As	9	Cumulonimbus Cb
X	Cloud not visible owing to darkness, fog, duststorm, sandstorm, or other analogous phenomena		

Table 9. CLOUD AMOUNT CODE

Code	Cloud Cover	Code	Cloud Cover
0	0	6	6 oktas
1	1 okta or less, but not zero	7	7 oktas or more, but not 8 oktas
2	2 oktas	8	8 oktas
3	3 oktas	9	Sky obscured, or cloud amount cannot be estimated
4	4 oktas		
5	5 oktas		

Note: 1 okta = $\frac{1}{8}$ of the sky covered

Table 10. VISIBILITY

Code	Estimate of hor. Visibility
0	Less than 50 metres (less than 55 yards)
1	50-200 metres (approx. 55-220 yards)
2	200-500 metres (approx. 220-550 yards)
3	500-1,000 metres (approx. 550 yards- $\frac{1}{2}$ n.m.)
4	1-2 km (approx. $\frac{3}{4}$ -1 n.m.)
5	2-4 km (approx. 1-2 n.m.)
6	4-10 km (approx. 2-6 n.m.)
7	10-20 km (approx. 6-12 n.m.)
8	20-50 km (approx. 12-30 n.m.)
9	50 km or more (30 n.m. or more)

Note: n.m. = nautical mile

TABLE 11. INSTITUTE CODE

Code	Institute
01	Atlantic Oceanographic Group
02	Pacific Oceanographic Group
03	Biological Station, St. Andrews, N.B.
04	Arctic Biological Station, Ste. Anne de Bellevue, P.Q.
05	Biological Station, St. John's Nfld.
06	Station de Biologie Marine, Grande Riviere, P.Q.
07	Marine Sciences Branch, Central Region
08	Naval Research Establishment, Dartmouth, N.S.
09	Pacific Naval Laboratory, Esquimalt, B.C.
10	Bedford Institute of Oceanography, (MBS, Atlantic Region)
11	Polar Continental Shelf Project
12	Great Lakes Institute
13	Institute of Oceanography, University of British Columbia
14	Institute of Oceanography, Dalhousie University
15	Marine Sciences Branch, Pacific Region
16	Department of Transport
17	Marine Sciences Centre, McGill University
18	RCN East Coast
19	RCN West Coast
20	Ontario Water Resources Commission
21	Dept. of National Health and Welfare
22	Inland Waters Branch, Dept. of Energy, Mines and Resources.

SECTION III

Serial oceanographic data

GENERAL INFORMATION

<u>Institute:</u>	Bedford Institute of Oceanography
<u>Observation Platform:</u>	CNAV "Sackville"
<u>Vessel's cruising speed:</u>	10 knots
<u>Total number of stations occupied:</u>	52
<u>Anemometer Height above sea level:</u>	11 metres
<u>Barometer readings:</u>	Aneroid Barometer (corrected)
<u>Air temperature:</u>	Fixed thermometer
<u>Surface sea water temperature:</u>	Bucket sample (deck thermometer)

The following Standard Deviations were used to express both measurement and interpolation error estimates:

Temperature	0.02
Salinity	0.004

C-REF-NO 004	YR 1966	DEPTH 142	WAVES 1 0922	AIR T 18.3	VIS 6
CONS. NO 001	MONTH 8	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 47-037N	DAY 18	NO.DPTH 7	WND-DIR 090	WW-CODE 42	
LON 60-360W	HR 13.2	W-COLOR	WND-FCE 01	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1000.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
132	0000	182 B	29519		2106	15106
132	0010	1785	29421		2107	15096
132	0020	1770	29658		2129	15096
132	0040	0270	31580		2521	14573
132	0065	0139	32543		2607	14533
132	0090	0242	33556		2681	14596
132	0130	0336	34085		2714	14650

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1820 B	29519		2106	15106	0000	00000	6729
0010	1785	29421		2107	15096	0067	00003	6723
0020	1770	29658		2129	15096	0134	00014	6519
0030	1065 I	3056 I		2341	14876	0189	00027	4488
0050	0087 I	3206 I		2571	14500	0257	00053	2287
0075	0168 E	3298 F		2640	14553	0306	00083	1639
0100	0202 I	3366 I		2692	14582	0342	00114	1145
0125	0306 D	3404 E		2714	14636	0368	00144	0944

C-REF-NO 004 YR 1966 DEPTH 174 WAVES 1 1022 AIR T 18.3 VIS 4
 CONS. NO 002 MONTH 8 MXSAMPD 01 WAVES 2 XX WET B STN
 LAT 47-085N DAY 18 NO.DPTH 8 WND-DIR 100 WW-CODE 47
 LON 60-370W HR 14.4 W-COLOR WND-FCE 01 CLD-TPE
 MARSD SQ 151 C/I 1810 W-TRNSP BARD 999.0 CLD-AMT HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
144	0000	179 B	29392		2104	15095
144	0010	1770	29363		2106	15091
144	0020	0799	30571		2383	14775
144	0030	0171	31342		2509	14525
144	0049	0174	32227		2579	14541
144	0074	0122	32642		2616	14528
144	0099	0176	33299		2665	14565
144	0148	0341	34114		2716	14656

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1790 B	29392		2104	15095	0000	00000	6753
0010	1770	29363		2106	15091	0068	00003	6732
0020	0799	30571		2383	14775	0122	00011	4087
0030	0171	31342		2509	14525	0157	00020	2882
0050	0172	3225 B		2581	14541	0208	00040	2193
0075	0123	32668		2618	14529	0259	00072	1844
0100	0157 G	3322 I		2660	14555	0300	00108	1448
0125	0228 E	3369 I		2692	14598	0333	00146	1145
*0150	0353	3415 B		2718	14662	0359	00182	0908

C-REF-NO 004	YR 1966	DEPTH 115	WAVES 1 1221	AIR T 18.8	VIS 2
CONS. NO 003	MONTH 8	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 47-130N	DAY 18	NO.DPTH 7	WND-DIR 120	WW-CODE 45	
LON 60-395W	HR 15.4	W-COLOR	WND-FCE 02	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 999.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
154	0000	165 B	29358		2133	15053
154	0010	0813 B	30319		2361	14775
154	0020	0322	31064		2475	14586
154	0030	0143	31800		2547	14518
154	0050	0123	32571		2610	14523
154	0075	0112	33007		2646	14528
154	0100	0216	33568		2684	14587

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1650 B	29358		2133	15053	0000	00000	6469
0010	0813 B	30319		2361	14775	0054	00002	4293
0020	0322	31064		2475	14586	0092	00008	3201
0030	0143	31800		2547	14518	0120	00015	2516
0050	0123	32571		2610	14523	0165	00033	1917
0075	0112	33007		2646	14528	0209	00060	1579
0100	0216	33568		2684	14586	0244	00091	1226

C-REF-NO 004	YR 1966	DEPTH 68	WAVES 1 1221	AIR T 19.4	VIS 4
CONS. NO 004	MONTH 8	MXSAMPD 00	WAVES 2 XX	WET B	STN
LAT 47-210N	DAY 18	NO.DPTH 5	WND-DIR 120	WW-CODE 01	
LUN 60-423W	HR 16.7	W-COLOR	WND-FCE 02	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1000.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
167	0000	161 B	29357		2142	15040
167	0010	1569	29363		2151	15029
167	0020	0745 C	30789		2407	14756
167	0030	0265	31629		2525	14570
167	0050	0128	32411		2597	14523

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1610 B	29357		2142	15040	0000	00000	6385
0010	1569	29363		2151	15029	0064	00003	6298
0020	0745 C	30789		2407	14756	0114	00010	3853
0030	0265	31629		2525	14570	0148	00019	2729
0050	0128	32411		2597	14523	0196	00038	2042

C-REF-NO 004	YR 1966	DEPTH 62	WAVES 1 1231	AIR T 18.3	VIS 4
CONS. NO 005	MONTH 8	MXSAMPD 00	WAVES 2 XX	WET B	STN
LAT 47-290N	DAY 18	NO.DPTH 5	WND-DIR 090	WW-CODE 47	
LON 60-450W	HR 18.1	W-COLOR	WND-FCE 02	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 999.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
181	0000	157 B	29318		2148	15027
181	0010	1549	29427		2161	15023
181	0020	0578	30527		2407	14686
181	0030	0813	31521		2455	14794
181	0050	0281	32296		2577	14589

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1570 B	29318		2148	15027	0000	00000	6330
0010	1549	29427		2161	15023	0063	00003	6209
0020	0578	30527		2407	14686	0113	00010	3851
0030	0813	31521		2455	14794	0150	00020	3399
0050	0281	32296		2577	14589	0206	00042	2237

C-REF-NO 004	YR 1966	DEPTH 95	WAVES 1 1031	AIR T 16.6	VIS 7
CONS. NO 006	MONTH 8	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 47-355N	DAY 18	NO.DPTH 6	WND-DIR 100	WW-CODE 81	
LON 60-334W	HR 20.0	W-COLOR	WND-FCE 02	CLD-TPE 4	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 999.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
200	0000	149 B	30000		2217	15010
200	0010	1468	29986		2221	15004
200	0020	0929 C	31660		2448	14838
200	0030	0186	31922		2554	14539
200	0049	0150	32306		2587	14532
200	0074	0086	32743		2626	14513

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1490 B	30000		2217	15010	0000	00000	5667
0010	1468	29986		2221	15004	0057	00003	5636
0020	0929 C	31660		2448	14838	0102	00009	3461
0030	0186	31922		2554	14539	0132	00017	2451
0050	-0182 F	3234 C		2604	14379	0177	00034	1969
0075	0119 H	32757		2625	14528	0224	00064	1774

C-REF-NO 004	YR 1966	DEPTH 247	WAVES 1 1031	AIR T 16.6	VIS 9
CONS. NO 007	MONTH 8	MXSAMPD 02	WAVES 2 XX	WET 8	STN
LAT 47-378N	DAY 18	NO.DPTH 10	WND-DIR 100	WW-CODE 42	
LON 60-290W	HR 21.0	W-COLOR	WND-FCE 03	CLD-TPE 4	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1000.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
210	0000	151 B	30108		2221	15017
210	0010	1489	30127		2227	15012
210	0020	1101 C	31248		2388	14896
210	0030	0387	32271		2565	14631
210	0049	0136 B	32414		2597	14527
210	0074	0093	32619		2616	14514
210	0099	0090	32818		2632	14520
210	0148	0183	33508		2681	14579
210	0197	0337	34062		2712	14662
210	0226	0381	34244		2723	14688

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1510 B	30108		2221	15017	0000	00000	5628
0010	1489	30127		2227	15012	0056	00003	5574
0020	1101 C	31248		2388	14896	0104	00010	4038
0030	0387	32271		2565	14631	0137	00018	2346
0050	0131 B	32422		2598	14525	0181	00035	2035
0075	0092	32626		2617	14514	0230	00066	1857
0100	0091	32831		2633	14521	0274	00106	1701
0125	0127 B	3317 F		2658	14546	0314	00152	1467
0150	0190	33535		2683	14583	0348	00200	1233
0175	0270 C	3384 B		2701	14626	0377	00248	1068
0200	0325 F	3407 C		2714	14657	0403	00296	0948
0225	0379	34238		2722	14686	0426	00346	0873

C-REF-NO 004	YR 1966	DEPTH 457	WAVES 1 1021	AIR T 16.6	VIS 9
CONS. NO 008	MONTH 8	MXSAMPD 04	WAVES 2 XX	WET B	STN
LAT 47-440N	DAY 18	NO.DPTH 13	WND-DIR 100	WW-CODE 42	
LON 60-175W	HR 22.7	W-COLOR	WND-FCE 02	CLD-TPE 4	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1000.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
227	0000	153 B	30940		2281	15034
227	0010	1520	31064		2292	15034
227	0019	1502	31074		2297	15030
227	0029	0669	31910		2505	14742
227	0048	0364	32359		2575	14626
227	0071	0183	32498		2600	14553
227	0095	0108	32654		2618	14525
227	0143	0136	33229		2662	14553
227	0191	0304	33933		2705	14645
227	0239	0409	34305		2725	14702
227	0287	0418	34527		2741	14717
227	0383	0418	34737		2758	14736
227	0424	0418 B	34775		2761	14743

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1530 B	30940		2281	15034	0000	00000	5059
0010	1520	31064		2292	15034	0050	00003	4950
0020	1428 I	3115 E		2318	15007	0099	00010	4705
0030	0630 F	3196 C		2514	14728	0137	00019	2840
0050	0342	3238 B		2578	14617	0188	00039	2225
0075	0164	32521		2604	14545	0240	00073	1982
0100	0102	32703		2622	14524	0288	00115	1805
0125	0103 B	3299 B		2645	14533	0331	00164	1591
0150	0158 B	3334 C		2669	14566	0368	00216	1359
0175	0244 D	3371 D		2693	14613	0400	00269	1144
0200	0330	34021		2710	14658	0426	00320	0987
0225	0387	3422 B		2720	14689	0450	00372	0894
0250	0416 B	34366		2729	14708	0472	00424	0818
0300	0419	34569		2745	14720	0509	00529	0674
0400	0419	34765		2760	14739	0571	00746	0538

C-REF-NO 004	YR 1966	DEPTH 485	WAVES 1 3021	AIR T 16.6	VIS 6
CONS. NO 009	MONTH 8	MXSAMPD 04	WAVES 2 XX	WET B	STN
LAT 47-508N	DAY 19	NO.DPTH 13	WND-DIR 300	WW-CODE 45	
LON 60-060W	HR 00.6	W-COLOR	WND-FCE 01	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BAKO 1000.0	CLD-AMT 9	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
006	0000	154 B	31032		2286	15038
006	0010	1524	31084		2293	15035
006	0019	1525	31115		2295	15038
006	0028	1299	31295		2355	14967
006	0048	0303 B	32133		2562	14596
006	0072	0175	32444		2597	14548
006	0096	0142 B	32597		2611	14540
006	0144	0099	32983		2645	14534
006	0192	0237	33696		2692	14613
006	0239	0391	34283		2725	14694
006	0287	0414	34530		2742	14715
006	0384	0420	34743		2758	14737
006	0433	0419 B	34782		2761	14745

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1540 B	31032		2286	15038	0000	00000	5012
0010	1524	31084		2293	15035	0050	00003	4943
0020	1509	31128		2300	15033	0099	00010	4883
0030	1197 I	3138 D		2381	14933	0144	00021	4108
0050	0268 G	3218 B		2568	14582	0209	00046	2318
0075	0168	32467		2599	14546	0264	00081	2026
0100	0134 B	32621		2614	14537	0313	00124	1887
0125	0103 C	3280 B		2630	14530	0358	00177	1728
0150	0111 B	3307 B		2651	14541	0399	00234	1534
0175	0177 C	3343 D		2676	14580	0435	00294	1302
0200	0267 B	3381 B		2699	14629	0465	00351	1088
0225	0351 C	3413 B		2717	14673	0491	00406	0926
0250	0403 B	3436 B		2730	14702	0513	00459	0809
0300	0417	34575		2745	14719	0550	00564	0667
0400	0423	3478 B		2761	14741	0611	00778	0534

C-REF-NO 004	YR 1966	DEPTH 485	WAVES 1 2721	AIR T 16.6	VIS 6
CONS. NO 010	MONTH 8	MXSAMPD 04	WAVES 2 XX	WET B	STN
LAT 47-570N	DAY 19	NO.DPTH 13	WND-DIR 300	WW-CODE 43	
LON 59-545W	HR 02.4	W-COLOR	WND-FCE 01	CLD-TPE	
MAKSD SQ 150	C/I 1810	W-TRNSP	BARO 1001.0	CLD-AMT 9	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
024	0000	160 B	30988		2269	15057
024	0010	1578	31006		2275	15051
024	0020	1576	31073		2281	15053
024	0030	1566	31081		2284	15052
024	0050	0395 B	31997		2543	14634
024	0074	0053	32283		2591	14492
024	0099	-0033	32486		2612	14459
024	0149	0125	33197		2660	14549
024	0198	0358	34136		2716	14672
024	0248	0419	34470		2737	14710
024	0297	0417	34625		2749	14720
024	0393	0423	34752		2759	14740
024	0440	0419 B	34768		2760	14746

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1600 B	30988		2269	15057	0000	00000	5170
0010	1578	31006		2275	15051	0052	00003	5113
0020	1576	31073		2281	15053	0103	00010	5062
0030	1566	31081		2284	15052	0153	00023	5038
0050	0395 B	31997		2543	14634	0230	00052	2561
0075	0046	32291		2592	14489	0288	00089	2087
0100	-0032	32497		2612	14460	0338	00133	1893
0125	0017 H	3282 B		2636	14491	0383	00185	1672
0150	0130	33218		2662	14552	0422	00239	1431
0175	0254 E	3372 I		2692	14618	0455	00293	1147
0200	0363	34157		2718	14674	0481	00343	0916
0225	0406 C	3437 E		2730	14700	0502	00390	0805
0250	0419	34479		2737	14711	0522	00437	0738
0300	0417	34632		2750	14720	0556	00534	0625
0400	0420	3477 B		2760	14740	0615	00743	0538

C-REF-NO 004	YR 1966	DEPTH 311	WAVES 1 2721	AIR T 16.1	VIS 7
CONS. NO 011	MONTH 8	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 48-037N	DAY 19	NO.DPTH 11	WND-DIR 270	WW-CODE 01	
LON 59-425W	HR 04.2	W-COLOR	WND-FCE 01	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1002.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
042	0000	163 B	30924		2257	15065
042	0010	1611	30922		2262	15061
042	0019	1582	31008		2275	15054
042	0028	1565	31024		2280	15051
042	0047	0520	31964		2527	14686
042	0071	0167	32218		2579	14542
042	0094	0101	32497		2606	14520
042	0141	0110	33568		2691	14546
042	0188	0364	34235		2724	14674
042	0235	0395	34413		2735	14697
042	0263	0419	34597		2747	14714

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1630 B	30924		2257	15065	0000	00000	5280
0010	1611	30922		2262	15061	0053	00003	5244
0020	1587 C	3101 B		2273	15056	0105	00011	5136
0030	1471 I	3111 G		2306	15022	0155	00023	4823
0050	0438 G	3202 E		2541	14653	0229	00052	2583
0075	0144 C	32259		2584	14533	0289	00089	2167
0100	0090	3263 E		2617	14517	0340	00134	1855
0125	0082	3319 I		2662	14526	0381	00181	1424
0150	0158 F	33730		2701	14571	0412	00224	1062
0175	0293 H	34095		2719	14639	0437	00265	0896
0200	0382 D	3430 E		2727	14684	0459	00307	0831
0225	0397 C	3439 E		2732	14696	0479	00351	0779
0250	0426 E	3456 G		2743	14715	0498	00396	0687

C-REF-NO 004	YR 1966	DEPTH 155	WAVES 1 2721	AIR T 16.1	VIS 5
CONS. NO 012	MONTH 8	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 48-100N	DAY 19	NO.DPTH 8	WND-DIR 270	HW-CODE 51	
LON 59-310W	HR 05.8	W-COLOR	WND-FCE 02	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1002.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
058	0000	164 B	30912		2254	15068
058	0010	1616	30911		2260	15062
058	0019	1597	30999		2271	15059
058	0029	1588	31008		2273	15058
058	0048	0418	31941		2536	14643
058	0072	0084	32497		2607	14508
058	0097	0087	32770		2628	14518
058	0145	0172	33319		2667	14571

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1640 B	30912		2254	15068	0000	00000	5311
0010	1616	30911		2260	15062	0053	00003	5263
0020	1605 C	3100 B		2268	15062	0105	00011	5181
0030	1535 I	3105 D		2288	15042	0157	00024	4998
0050	0359 F	3201 B		2547	14619	0232	00052	2522
0075	0074 C	3254 B		2611	14505	0288	00087	1914
0100	0001 I	3289 I		2643	14480	0332	00126	1608
0125	0035 I	3317 I		2664	14504	0370	00170	1409

C-REF-NO 004	YR 1966	DEPTH 128	WAVES 1 2721	AIR T 16.1	VIS 5
CONS. NO 013	MONTH 8	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 48-073N	DAY 19	NO.DPTH 7	WND-DIR 270	WW-CODE 51	
LON 59-235W	HR 06.9	W-COLOR	WND-FCE 01	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1002.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
069	0000	165 B	30960		2256	15072
069	0010	1644	30933		2255	15071
069	0020	1593	31056		2276	15058
069	0030	0766	31659		2472	14778
069	0050	0170	32155		2574	14539
069	0075	0083	32397		2599	14507
069	0100	0101	32822		2632	14525

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1650 B	30960		2256	15072	0000	00000	5297
0010	1644	30933		2255	15071	0053	00003	5307
0020	1593	31056		2276	15058	0105	00011	5110
0030	0766	31659		2472	14777	0147	00021	3233
0050	0170	32155		2574	14539	0203	00043	2263
0075	0083	32397		2599	14507	0257	00077	2026
0100	0101	32822		2632	14525	0304	00118	1713

C-REF-NO 004	YR 1966	DEPTH	99	WAVES 1 2920	AIR T 17.2	VIS 7
CONS. NO 014	MONTH 8	MXSAMPD	01	WAVES 2 XX	WET B	STN
LAT 48-045N	DAY 19	NO.DPTH	7	WND-DIR 300	WW-CODE 01	
LON 59-157W	HR 08.1	W-COLOR		WND-FCE 01	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP		BARO 1002.0	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
081	0000	163 B	31024		2265	15066
081	0010	1618	31010		2267	15064
081	0020	1426	31129		2317	15006
081	0030	0736	31770		2485	14767
081	0050	0194	32170		2573	14549
081	0075	0145	32543		2607	14537
081	0090	0128	32612		2613	14533

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1630 B	31024		2265	15066	0000	00000	5207
0010	1618	31010		2267	15064	0052	00003	5194
0020	1426	31129		2317	15006	0102	00010	4716
0030	0736	31770		2485	14767	0141	00020	3111
0050	0194	32170		2573	14549	0195	00041	2268
0075	0145	32543		2607	14537	0248	00075	1953

C-REF-NO 004	YR 1966	DEPTH 117	WAVES 1 2320	AIR T 18.3	VIS 1
CONS. NO 015	MONTH 8	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 47-350N	DAY 19	NO.DPTH 7	WND-DIR 230	WW-CODE 46	
LOM 58-375W	HR 19.5	W-COLOR	WND-FCE 02	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1005.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
195	0000	150 B	31122		2301	15026
195	0010	1470	31122		2307	15018
195	0020	1285	31601		2382	14965
195	0030	0619	32229		2537	14727
195	0050	0367	32431		2580	14628
195	0075	0187	32528		2603	14555
195	0100	0114	32661		2618	14529

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1500 B	31122		2301	15026	0000	00000	4864
0010	1470	31122		2307	15018	0049	00002	4806
0020	1285	31601		2382	14965	0093	00009	4100
0030	0619	32229		2537	14727	0127	00017	2622
0050	0367	32431		2580	14628	0176	00037	2209
0075	0187	32528		2603	14555	0229	00070	1992
0100	0114	32661		2618	14529	0277	00113	1843

C-REF-NO 004	YR 1966	DEPTH 170	WAVES 1 2321	AIR T 18.3	VIS 9
CONS. NO 016	MONTH 8	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 47-277N	DAY 19	NO.DPTH 8	WND-DIR 230	WW-CODE 42	
LON 58-380W	HR 20.9	W-COLOR	WND-FCE 04	CLD-TPE	
MAKSD SQ 150	C/I 1810	W-TRNSP	BARO 1005.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
209	0000	149 B	31392		2324	15027
209	0010	1469	31396		2329	15021
209	0020	0607	32277		2542	14721
209	0030	0399	32412		2575	14638
209	0050	0274	32490		2593	14589
209	0074	0171	32572		2607	14549
209	0099	0131	32680		2619	14536
209	0149	0162	33312		2667	14567

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1490 B	31392		2324	15027	0000	00000	4646
0010	1469	31396		2329	15021	0046	00002	4603
0020	0607	32277		2542	14721	0082	00007	2571
0030	0399	32412		2575	14638	0107	00014	2251
0050	0274	32490		2593	14589	0150	00031	2085
0075	0168	32575		2608	14548	0201	00063	1944
0100	0122 C	3272 E		2622	14533	0248	00106	1806
0125	0119 B	3297 D		2643	14539	0291	00155	1609
*0150	0165	33328		2668	14569	0329	00208	1371

C-REF-NO 004	YR 1966	DEPTH 155	WAVES 1 2710	AIR T 18.3	VIS 2
CONS. NO 017	MONTH 8	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 47-208N	DAY 19	NO.DPTH 8	WND-DIR CALM	WW-CODE 46	
LON 58-382W	HR 22.2	W-COLOR	WND-FCE 00	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1005.0	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
222	0000	158 B	31334		2300	15054
222	0010	1563	31330		2303	15051
222	0020	0523	32113		2539	14684
222	0030	0271	32275		2576	14581
222	0050	0147	32438		2598	14532
222	0075	0114	32581		2612	14524
222	0100	0077	32757		2628	14513
222	0145	0167	33345		2669	14569

*WAVES NOT COMPATIBLE WITH WIND

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1580 B	31334		2300	15054	0000	00000	4874
0010	1563	31330		2303	15051	0049	00002	4844
0020	0523	32113		2539	14684	0086	00008	2600
0030	0271	32275		2576	14581	0111	00014	2245
0050	0147	32438		2598	14532	0154	00031	2033
0075	0114	32581		2612	14523	0203	00063	1904
0100	0077	32757		2628	14513	0249	00104	1749
0125	0120 D	3306 B		2650	14541	0291	00151	1544

C-REF-NO 004	YR 1966	DEPTH 402	WAVES 1 0610	AIR T 18.3	VIS 6
CONS. NO 018	MONTH 8	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 47-150N	DAY 20	NO.DPTH 12	WND-DIR 060	WW-CODE 42	
LON 58-500W	HR 00.1	W-COLOR	WND-FCE 01	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1005.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
001	0000	156 B	31468		2315	15050
001	0010	1489	31488		2331	15029
001	0020	0526	32272		2551	14688
001	0030	0265	32392		2586	14580
001	0049	0120	32549		2609	14521
001	0074	0093	32790		2630	14517
001	0099	0087	33037		2650	14522
001	0148	0274	33746		2693	14622
001	0198	0419	34291		2722	14700
001	0247	0437	34521		2739	14718
001	0297	0425	34630		2749	14723
001	0340	0422	34700		2755	14730

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1560 B	31468		2315	15050	0000	00000	4734
0010	1489	31488		2331	15029	0047	00002	4576
0020	0526	32272		2551	14688	0082	00007	2484
0030	0265	32392		2586	14580	0106	00013	2151
0050	0117	32558		2610	14520	0147	00030	1924
0075	0092	32799		2631	14517	0192	00059	1725
0100	0090	33051		2651	14523	0234	00095	1533
0125	0173 F	3341 E		2674	14569	0269	00136	1318
0150	0281	33773		2694	14626	0300	00180	1127
0175	0363 B	3407 B		2711	14669	0327	00224	0979
0200	0421	34305		2723	14701	0350	00268	0865
0225	0438 B	3444 B		2733	14714	0371	00313	0781
0250	0437	34530		2740	14719	0390	00359	0718
0300	0431 B	3465 B		2750	14726	0424	00455	0626

C-REF-NO 004	YR 1966	DEPTH 424	WAVES 1 1610	AIR T 15.5	VIS 7
CUNS. NO 019	MONTH 8	MXSAMPD 04	WAVES 2 XX	WET B	STN
LAT 47-080N	DAY 20	NO.DPTH 12	WND-DIR 160	WW-CODE 01	
LON 59-020W	HR 02.3	W-COLOR	WND-FCE 01	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1005.0	CLD-AMT 3	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
023	0000	156 B	31229		2296	15047
023	0010	1428	31249		2326	15006
023	0020	0780	32098		2505	14787
023	0030	0427	32345		2567	14649
023	0049	0168	32646		2613	14544
023	0074	0093	32835		2633	14517
023	0099	0093	33047		2650	14524
023	0148	0292	33816		2697	14631
023	0197	0395	34270		2723	14689
023	0246	0423	34537		2742	14712
023	0296	0420	34650		2751	14721
023	0394	0419	34781		2761	14739

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1560 B	31229		2296	15047	0000	00000	4909
0010	1428	31249		2326	15006	0048	00002	4629
0020	0780	32098		2505	14787	0086	00008	2923
0030	0427	32345		2567	14649	0112	00014	2328
0050	0161	32656		2615	14542	0155	00031	1878
0075	0092	32842		2634	14517	0200	00060	1693
0100	0096	33062		2651	14526	0240	00096	1528
0125	0188 H	3345 H		2676	14577	0276	00137	1299
0150	0298	33839		2698	14634	0306	00179	1091
0175	0359	3410 B		2713	14668	0332	00222	0956
0200	0398	34291		2725	14691	0354	00265	0851
0225	0417	34443		2735	14705	0375	00309	0759
0250	0423	34550		2743	14713	0393	00354	0689
0300	0429 C	3469 E		2753	14726	0425	00445	0593
0400	0417	34777		2761	14739	0482	00646	0527

C-REF-NO 004	YR 1966	DEPTH 438	WAVES 1 00X0	AIR T 15.5	VIS 8
CONS. NO 020	MONTH 8	MXSAMPD 04	WAVES 2 XX	WET B	STN
LAT 47-024N	DAY 20	NO.DPTH 12	WND-DIR CALM	WW-CODE 02	
LON 59-138W	HR 04.0	W-COLOR	WND-FCE 00	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1006.0	CLD-AMT 4	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
040	0000	154 B	31113		2292	15039
040	0010	1275	31393		2367	14957
040	0019	0493	32327		2559	14675
040	0029	0301	32411		2584	14596
040	0048	0167	32521		2603	14542
040	0071	0095	32664		2619	14515
040	0095	0094	32829		2633	14521
040	0143	0179	33386		2672	14575
040	0191	0394	34174		2716	14686
040	0239	0429	34473		2736	14713
040	0287	0422	34579		2745	14719
040	0385	0418	34764		2760	14736

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1540 B	31113		2292	15039	0000	00000	4953
0010	1275	31393		2367	14957	0046	00002	4233
0020	0456 E	3236 D		2565	14660	0079	00007	2346
0030	0289	32418		2586	14591	0102	00013	2151
0050	0157	32533		2605	14538	0143	00029	1968
0075	0091	32688		2622	14515	0191	00060	1809
0100	0097	32875		2636	14524	0235	00099	1671
0125	0133	33146		2656	14548	0274	00144	1487
0150	0212 C	3351 D		2679	14592	0309	00193	1269
0175	0325 F	3393 G		2703	14651	0338	00241	1052
0200	0409 B	3426 B		2721	14695	0363	00288	0889
0225	0430 C	3442 C		2732	14710	0384	00334	0790
0250	0429	3451 B		2738	14715	0403	00381	0727
0300	0435 D	3466 H		2750	14728	0437	00476	0621

C-REF-NO 004	YR 1966	DEPTH 420	WAVES 1 00X0	AIR T 15.5	VIS 8
CONS. NO 021	MONTH 8	MXSAMPD 04	WAVES 2 XX	WET B	STN
LAT 46-560N	DAY 20	NO.DPTH 12	WND-DIR CALM	WW-CODE 02	
LON 59-247W	HR 05.7	W-COLOR	WND-FCE 00	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1004.0	CLD-AMT 2	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
057	0000	161 B	31098		2275	15061
057	0010	1536	31136		2294	15040
057	0020	0515	32302		2555	14684
057	0029	0266	32405		2587	14581
057	0049	0153	32552		2607	14536
057	0073	0091	32681		2621	14514
057	0097	0085	32894		2639	14518
057	0146	0170	33350		2670	14571
057	0194	0358	34143		2717	14671
057	0243	0424	34503		2739	14712
057	0292	0411	34618		2749	14716
057	0391	0418	34766		2760	14737

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1610 B	31098		2275	15061	0000	00000	5110
0010	1536	31136		2294	15040	0050	00003	4930
0020	0515	32302		2555	14684	0087	00008	2450
0030	0252 B	32414		2589	14575	0110	00013	2125
0050	0149	32557		2608	14535	0151	00030	1944
0075	0089	32697		2622	14514	0199	00060	1801
0100	0087	32916		2640	14520	0242	00099	1633
0125	0119	3313 C		2655	14542	0281	00144	1490
0150	0186 B	3342 C		2674	14579	0317	00193	1319
0175	0285 E	3384 H		2699	14632	0347	00243	1085
0200	0372	34206		2721	14679	0372	00291	0888
0225	0412	3441 B		2733	14703	0393	00337	0777
0250	0424	34528		2741	14714	0411	00382	0706
0300	0436 H	3470 I		2753	14729	0444	00474	0597
0400	0412 B	3475 B		2760	14736	0502	00679	0539

C-REF-NO 004	YR 1966	DEPTH 354	WAVES 1 3020	AIR T 18.3	VIS 8
CONS. NO 022	MONTH 8	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 46-500N	DAY 20	NO.DPTH 12	WND-DIR CALM	WW-CODE 02	
LON 59-365W	HR 07.6	W-COLOR	WND-FCE 00	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1005.0	CLD-AMT 2	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
076	0000	163 B	31307		2287	15070
076	0010	1524	31326		2312	15038
076	0020	0465	32129		2546	14661
076	0030	0312	32322		2576	14600
076	0049	0120	32448		2601	14520
076	0074	0092	32623		2616	14514
076	0098	0086	32892		2638	14519
076	0148	0233	33601		2685	14602
076	0197	0378	34211		2720	14681
076	0246	0417	34454		2736	14709
076	0295	0417	34611		2748	14719
076	0344	0420	34728		2757	14730

#WAVES NOT COMPATIBLE WITH WIND

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1630 B	31307		2287	15070	0000	00000	5000
0010	1524	31326		2312	15038	0049	00002	4766
0020	0465	32129		2546	14661	0086	00007	2528
0030	0312	32322		2576	14600	0110	00014	2242
0050	0116	32454		2601	14519	0152	00031	2002
0075	0091	32633		2617	14514	0201	00062	1851
0100	0090	32919		2640	14521	0245	00101	1633
0125	0152 C	3327 C		2664	14558	0283	00145	1408
0150	0240	33630		2687	14606	0316	00191	1200
0175	0319 B	3397 C		2706	14649	0344	00237	1018
0200	0382	34232		2722	14684	0368	00283	0879
0225	0409 B	3438 C		2730	14701	0389	00329	0800
0250	0418	34469		2737	14710	0408	00376	0743
0300	0424 B	34633		2749	14723	0443	00473	0632

C-REF-NO 004	YR 1966	DEPTH 183	WAVES 1 3020	AIR T 18.3	VIS 6
CONS. NO 023	MONTH 8	MXSAMPD 02	WAVES 2 XX	WET B	STN
LAT 46-460N	DAY 20	NO.DPTH 9	WND-DIR CALM	WW-CODE 46	
LON 59-435W	HR 08.8	W-COLOR	WND-FCE 00	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1006.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
088	0000	167 B	30133		2188	15068
088	0010	1480	31377		2325	15025
088	0020	0877	31919		2477	14822
088	0030	0327	32267		2571	14606
088	0050	0168	32477		2600	14542
088	0075	0094	32625		2616	14515
088	0100	0094	32962		2643	14524
088	0150	0255	33710		2692	14614
088	0175	0305	33937		2705	14643

*WAVES NOT COMPATIBLE WITH WIND

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1670 B	30133		2188	15068	0000	00000	5945
0010	1480	31377		2325	15025	0053	00002	4639
0020	0877	31919		2477	14822	0092	00008	3192
0030	0327	32267		2571	14606	0120	00015	2296
0050	0168	32477		2600	14542	0163	00032	2018
0075	0094	32625		2616	14515	0212	00063	1859
0100	0094	32962		2643	14524	0256	00102	1603
0125	0166 F	3335 E		2670	14566	0293	00145	1352
0150	0255	33710		2692	14614	0325	00189	1152
0175	0305	33937		2705	14643	0352	00234	1026

C-REF-NO 004	YR 1966	DEPTH 67	WAVES 1 3222	AIR T 18.3	VIS 7
CONS. NO 024	MONTH 8	MXSAMPD 00	WAVES 2 XX	WET B	STN
LAT 46-420N	DAY 20	NO.DPTH 5	WND-DIR 320	WW-CODE 01	
LON 59-527W	HR 10.2	W-COLOR	WND-FCE 05	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1008.0	CLD-AMT 4	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
102	0000	176 B	29538		2122	15088
102	0010	1671	30119		2187	15070
102	0020	1079	31869		2440	14896
102	0030	0517	32193		2546	14685
102	0050	0166	32455		2598	14541

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1760 B	29538		2122	15088	0000	00000	6579
0010	1671	30119		2187	15070	0063	00003	5960
0020	1079	31869		2440	14896	0111	00010	3543
0030	0517	32193		2546	14685	0141	00017	2534
0050	0166	32455		2598	14541	0187	00036	2033

C-REF-NO 004	YR 1966	DEPTH 119	WAVES 1 3122	AIR T 19.9	VIS 8
CONS. NO 025	MONTH 8	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 46-408N	DAY 20	NO.DPTH 7	WND-DIR 310	WW-CODE 01	
LON 60-040W	HR 12.9	W-COLOR	WND-FCE 03	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1009.0	CLD-AMT 5	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
129	0000	150 B	29878		2206	15011
129	0010	1491	29847		2205	15010
129	0019	1142	30307		2308	14898
129	0029	0429	31217		2478	14635
129	0049	0372	32267		2567	14628
129	0073	0132	32520		2606	14530
129	0097	0108	32918		2639	14529

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1500 B	29878		2206	15011	0000	00000	5777
0010	1491	29847		2205	15010	0058	00003	5784
0020	1068 F	3039 C		2327	14873	0110	00011	4616
0030	0406 H	31291		2486	14626	0149	00020	3103
0050	0362 B	3229 B		2569	14624	0203	00042	2312
0075	0189 I	3275 I		2621	14559	0255	00074	1822

C-REF-NO 004 YR 1966 DEPTH 111 WAVES 1 2922 AIR T 19.9 VIS 8
 CONS. NO 026 MONTH 8 MXSAMPD 01 WAVES 2 XX WET B STN
 LAT 46-410N DAY 20 NO.DPTH 7 WND-DIR 290 WW-CODE 01
 LON 60-150W HR 14.2 W-COLOR WND-FCE 04 CLD-TPE
 MARSD SQ 151 C/I 1810 W-TRNSP BARO 1010.0 CLD-AMT 5 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
142	0000	176 B	29596		2126	15089
142	0010	1736	29543		2128	15083
142	0020	1706	29565		2136	15075
142	0030	1113	30300		2312	14890
142	0050	0231	32082		2564	14565
142	0075	0145	32514		2604	14536
142	0100	0124	33053		2649	14539

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1760 B	29596		2126	15089	0000	00000	6536
0010	1736	29543		2128	15083	0065	00003	6524
0020	1706	29565		2136	15075	0130	00013	6444
0030	1113	30300		2312	14890	0187	00027	4761
0050	0231	32082		2564	14565	0258	00054	2361
0075	0145	32514		2604	14536	0313	00088	1975
0100	0124	33053		2649	14539	0357	00127	1552

C-REF-NO 004	YR 1966	DEPTH 80	WAVES 1 2922	AIR T 17.7	VIS 7
CONS. NO 027	MONTH 8	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 47-035N	DAY 23	NO.DPTH 6	WND-DIR 290	WW-CODE 02	
LON 60-363W	HR 02.3	W-COLOR	WND-FCE 04	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1014.0	CLD-AMT 3	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
023	0000	186 B	29677		2109	15119
023	0010	1856	29497		2096	15118
023	0019	1859	29502		2096	15120
023	0029	1617	29601		2159	15050
023	0048	0130	31953		2560	14518
023	0072	0132	32512		2605	14530

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1860 B	29677		2109	15119	0000	00000	6706
0010	1856	29497		2096	15118	0068	00003	6830
0020	1849	2949 C		2097	15117	0136	00014	6821
0030	1539 I	2971 I		2184	15027	0200	00030	5986
0050	0531 I	3129 I		2472	14682	0293	00065	3233

C-REF-NO 004 YR 1966 DEPTH 164 WAVES 1 2922 AIR T 17.2 VIS 8
 CONS. NO 028 MONTH 8 MXSAMPD 01 WAVES 2 XX WET B STN
 LAT 47-085N DAY 23 NO.DPTH 8 WND-DIR 290 WW-CODE 02
 LON 60-380W HR 03.5 W-COLOR WND-FCE 04 CLD-TPE
 MARSD SQ 151 C/I 1810 W-TRNSP BARO 1013.0 CLD-AMT 2 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
035	0000	177 B	29346		2105	15089
035	0010	1756	29322		2106	15086
035	0019	1759	29333		2107	15089
035	0029	0653	30499		2396	14717
035	0048	0182	31640		2532	14537
035	0072	0137	32345		2591	14530
035	0096	0115	32807		2630	14531
035	0144	0200	33514		2680	14586

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1770 B	29346		2105	15089	0000	00000	6741
0010	1756	29322		2106	15086	0067	00003	6730
0020	1661 I	2943 F		2136	15060	0133	00013	6445
0030	0597 G	3058 B		2410	14696	0185	00026	3830
0050	0166 D	3172 B		2539	14531	0250	00051	2592
0075	0132	32411		2597	14529	0308	00088	2045
0100	0121 B	3293 G		2639	14536	0354	00129	1647
0125	0151	3332 E		2668	14559	0392	00172	1371

C-REF-NO 004	YR 1966	DEPTH 120	WAVES 1 2921	AIR T 16.6	VIS 8
CONS. NO 029	MONTH 8	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 47-130N	DAY 23	NO.DPTH 7	WND-DIR 290	WW-CODE 02	
LON 60-395W	HR 04.6	W-COLOR	WND-FCE 03	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1013.0	CLD-AMT 3	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
046	0000	161 B	29597		2160	15043
046	0010	1594	29581		2163	15039
046	0019	1592	29617		2166	15041
046	0029	0482	30747		2435	14651
046	0049	0127	31892		2556	14516
046	0073	0119	32957		2642	14531
046	0097	0126	32818		2630	14536

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1610 B	29597		2160	15043	0000	00000	6209
0010	1594	29581		2163	15039	0062	00003	6190
0020	1493 I	2971 F		2194	15010	0123	00012	5889
0030	0431 I	3083 C		2446	14630	0170	00024	3478
0050	0122 B	3195 B		2561	14514	0229	00047	2388
0075	0046 I	3285 I		2637	14496	0280	00078	1663

C-REF-NO 004	YR 1966	DEPTH 67	WAVES 1 3121	AIR T 16.1	VIS 8
CONS. NO 030	MONTH 8	MXSAMPD 00	WAVES 2 XX	WET B	STN
LAT 47-210N	DAY 23	NO.DPTH 5	WND-DIR 310	WW-CODE 02	
LON 60-422W	HR 06.1	W-COLOR	WND-FCE 03	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1013.0	CLD-AMT 4	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
061	0000	161 B	29454		2150	15041
061	0010	1601	29441		2150	15040
061	0020	0624	30515		2401	14705
061	0030	0223	31116		2487	14545
061	0050	0129	32341		2592	14523

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1610 B	29454		2150	15041	0000	00000	6314
0010	1601	29441		2150	15040	0063	00003	6307
0020	0624	30515		2401	14705	0115	00010	3911
0030	0223	31116		2487	14545	0150	00019	3088
0050	0129	32341		2592	14523	0202	00040	2096

C-REF-NO 004	YR 1966	DEPTH	55	WAVES 1 3521	AIR T 16.1	VIS 8
CONS. NO 031	MONTH 8	MXSAMPD	00	WAVES 2 XX	WET B	STN
LAT 47-290N	DAY 23	NO.DPTH	5	WND-DIR 350	WW-CODE 02	
LON 60-450W	HR 07.5	W-COLOR		WND-FCE 04	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP		BARO 1014.0	CLD-AMT 3	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
075	0000	157 B	29529		2164	15030
075	0010	1567	29526		2164	15030
075	0020	1330 C	29780		2232	14957
075	0030	0438 C	31416		2493	14641
075	0050	0141	32144		2575	14526

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1570 B	29529		2164	15030	0000	00000	6176
0010	1567	29526		2164	15030	0062	00003	6174
0020	1330 C	29780		2232	14957	0121	00012	5524
0030	0438 C	31416		2493	14641	0164	00022	3039
0050	0141	32144		2575	14525	0217	00043	2253

C-REF-NO 004	YR 1966	DEPTH 91	WAVES 1 3521	AIR T 16.1	VIS B
CONS. NO 032	MONTH 8	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 47-355N	DAY 23	NO.DPTH 6	WND-DIR 350	WW-CODE 03	
LON 60-333W	HR 09.2	W-COLOR	WND-FCE 03	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1015.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
092	0000	159 B	30360		2223	15046
092	0010	1586	30763		2255	15051
092	0020	0874	31442		2440	14815
092	0030	0355	32107		2555	14615
092	0050	0165	32464		2599	14541
092	0075	0097	32743		2626	14518

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1590 B	30360		2223	15046	0000	00000	5608
0010	1586	30763		2255	15051	0055	00003	5307
0020	0874	31442		2440	14815	0099	00009	3543
0030	0355	32107		2555	14615	0129	00016	2441
0050	0165	32464		2599	14541	0174	00034	2025
0075	0097	32743		2626	14518	0222	00065	1771

C-REF-NO 004	YR 1966	DEPTH 228	WAVES 1 3521	AIR T 16.1	VIS 8
CONS. NO 033	MONTH 8	MXSAMPD 02	WAVES 2 XX	WET B	STN
LAT 47-378N	DAY 23	NO.DPTH 10	WND-DIR 350	WW-CODE 01	
LON 60-290W	HR 10.2	W-COLOR	WND-FCE 04	CLD-TPE	
MAKSD SQ 151	C/I 1810	W-TRNSP	BARU 1018.0	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
102	0000	160 B	30327		2218	15049
102	0010	1591	30312		2219	15047
102	0020	0618	31629		2489	14717
102	0030	0278	32021		2555	14581
102	0050	0132	32333		2591	14524
102	0075	0120	32590		2612	14526
102	0100	0099	32793		2630	14524
102	0149	0180	33442		2676	14577
102	0199	0319	33990		2708	14653
102	0229	0372	34198		2720	14684

*DEPTH OF BOTTOM OBSERVATION GREATER THAN SOUNDING

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1600 B	30327		2218	15049	0000	00000	5654
0010	1591	30312		2219	15047	0057	00003	5648
0020	0618	31629		2489	14717	0100	00009	3069
0030	0278	32021		2555	14581	0128	00016	2442
0050	0132	32333		2591	14524	0174	00034	2104
0075	0120	32590		2612	14526	0224	00066	1901
0100	0099	32793		2630	14524	0270	00107	1734
0125	0127 B	3311 E		2653	14545	0311	00154	1510
0150	0183	33455		2677	14579	0346	00203	1289
0175	0253 C	3375 B		2695	14617	0377	00254	1121
0200	0307 E	3398 C		2709	14648	0403	00305	0995
0225	0363	34172		2719	14679	0427	00357	0907

C-REF-NO 004	YR 1966	DEPTH 466	WAVES 1 3521	AIR T 16.1	VIS 8
CONS. NO 034	MONTH 8	MXSAMPD 04	WAVES 2 XX	WET B	STN
LAT 47-442N	DAY 23	NO-DPTH 13	WND-DIR 350	WW-CODE 01	
LON 60-175W	HR 12.1	W-COLOR	WND-FCE 04	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1016.0	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
121	0000	159 B	31037		2275	15054
121	0010	1583	31004		2274	15053
121	0020	1583	31013		2275	15055
121	0029	1114	31424		2399	14904
121	0049	0314	32251		2570	14603
121	0073	0141	32480		2602	14534
121	0097	0106	32620		2615	14524
121	0145	0095	32984		2645	14532
121	0193	0257	33729		2693	14622
121	0241	0395	34300		2726	14697
121	0290	0421	34525		2741	14719
121	0387	0423	34761		2759	14739
121	0411	0421	34764		2760	14742

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1590 B	31037		2275	15054	0000	00000	5113
0010	1583	31004		2274	15053	0051	00003	5125
0020	1583	31013		2275	15055	0103	00011	5121
0030	1063	31474		2412	14887	0148	00022	3811
0050	0297 C	3227 B		2573	14596	0209	00045	2270
0075	0135	32493		2603	14532	0262	00079	1984
0100	0102	32636		2617	14523	0311	00122	1855
0125	0084 B	3280 C		2631	14521	0356	00174	1718
0150	0108 B	3306 B		2650	14540	0397	00231	1539
0175	0188 D	3344 E		2675	14584	0432	00291	1306
0200	0281	33828		2699	14635	0463	00348	1088
0225	0357 B	3414 B		2717	14676	0488	00403	0926
0250	0405 B	3436 B		2729	14703	0510	00457	0813
0300	0423	34564		2744	14722	0548	00562	0682
0400	0423	34763		2759	14741	0610	00781	0544

C-REF-NO 004	YR 1966	DEPTH 483	WAVES 1 3621	AIR T 13.3	VIS 8
CONS. NO 035	MONTH 8	MXSAMPD 04	WAVES 2 XX	WET B	STN
LAT 47-506N	DAY 23	NO.DPTH 13	WND-DIR 360	WW-CODE 01	
LON 60-060W	HR 14.2	W-COLOR	WND-FCE 02	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1016.0	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
142	0000	159 B	30988		2271	15053
142	0010	1588	30961		2270	15054
142	0020	1574	31033		2278	15052
142	0029	1483	31150		2307	15026
142	0048	0343	32186		2563	14614
142	0072	0178	32485		2600	14550
142	0096	0113	32621		2615	14527
142	0145	0135	33197		2660	14553
142	0193	0290	33891		2703	14638
142	0242	0406	34368		2730	14702
142	0291	0422	34566		2744	14720
142	0390	0420	34749		2759	14738
142	0439	0419	34772		2761	14746

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1590 B	30988		2271	15053	0000	00000	5149
0010	1588	30961		2270	15054	0052	00003	5167
0020	1574	31033		2278	15052	0103	00011	5087
0030	1428 I	3120 D		2322	15009	0152	00023	4670
0050	0300 H	3224 C		2570	14597	0222	00049	2299
0075	0166	32504		2602	14546	0276	00083	1996
0100	0108	32658		2618	14526	0325	00126	1842
0125	0105 B	3293 C		2640	14533	0368	00176	1634
0150	0149 B	3327 B		2665	14561	0407	00230	1403
0175	0227 C	3364 D		2688	14604	0439	00284	1186
0200	0311	33975		2708	14650	0467	00337	1004
0225	0374	34232		2722	14684	0490	00388	0873
0250	0412	34412		2733	14707	0511	00439	0780
0300	0423	34592		2746	14722	0548	00541	0661
0400	0424	3477 B		2760	14741	0608	00756	0542

C-REF-NO 004	YR 1966	DEPTH 484	WAVES 1 3621	AIR T 14.9	VIS 8
CONS. NO 036	MONTH 8	MXSAMPD 04	WAVES 2 XX	WET B	STN
LAT 47-570N	DAY 23	NO.DPTH 13	WND-DIR 360	WW-CODE 02	
LON 59-545W	HR 16.3	W-COLOR	WND-FCE 03	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1018.0	CLD-AMT 4	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
163	0000	160 B	30761		2252	15054
163	0010	1565	30731		2257	15044
163	0020	1238	31151		2356	14943
163	0029	0768	31635		2470	14778
163	0049	0144	32121		2573	14526
163	0073	0047	32285		2592	14489
163	0098	-0018	32530		2614	14466
163	0146	0159	33360		2671	14566
163	0195	0366	34174		2719	14675
163	0244	0419	34473		2737	14710
163	0293	0416	34602		2747	14718
163	0392	0420	34738		2758	14738
163	0441	0420	34762		2760	14746

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1600 B	30761		2252	15054	0000	00000	5336
0010	1565	30731		2257	15044	0053	00003	5287
0020	1238	31151		2356	14943	0102	00010	4346
0030	0724	31673		2479	14761	0139	00019	3168
0050	0133 B	32132		2575	14522	0194	00041	2257
0075	0039	32301		2593	14486	0248	00075	2076
0100	-0015 B	32560		2617	14469	0298	00119	1852
0125	0056 H	3297 E		2646	14511	0341	00169	1574
0150	0178	3344 B		2676	14576	0377	00219	1299
0175	0289 D	3388 E		2702	14635	0407	00268	1058
0200	0376	3422 B		2721	14681	0431	00315	0882
0225	0411 B	3440 D		2732	14702	0453	00361	0787
0250	0420	34494		2739	14711	0472	00407	0726
0300	0416	34616		2749	14720	0506	00504	0636
0400	0418	34748		2759	14739	0566	00717	0550

C-REF-NO 004	YR 1966	DEPTH 287	WAVES 1 3621	AIR T 13.3	VIS 8
CONS. NO 037	MONTH 8	MXSAMPD 02	WAVES 2 XX	WET B	STN
LAT 48-037N	DAY 23	NO.DPTH 10	WND-DIR 360	WW-CODE 02	
LON 59-425W	HR 18.1	W-COLOR	WND-FCE 03	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1018.0	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
181	0000	163 B	30891		2255	15065
181	0010	1609	30875		2258	15060
181	0020	1554	31019		2282	15046
181	0030	0532	31849		2517	14686
181	0050	0139	32176		2578	14525
181	0075	0011	32416		2604	14474
181	0100	-0033	32643		2624	14461
181	0150	0237	33676		2691	14605
181	0200	0375	34259		2724	14681
181	0250	0422	34532		2741	14713

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1630 B	30891		2255	15065	0000	00000	5305
0010	1609	30875		2258	15060	0053	00003	5274
0020	1554	31019		2282	15046	0105	00011	5056
0030	0532	31849		2517	14686	0144	00020	2809
0050	0139	32176		2578	14525	0195	00040	2228
0075	0011	32416		2604	14474	0248	00074	1975
0100	-0033	32643		2624	14461	0295	00116	1781
0125	0080 I	3314 I		2658	14524	0336	00162	1460
0150	0237	33676		2691	14605	0369	00209	1163
0175	0320	3402 B		2710	14650	0396	00253	0981
0200	0375	34259		2724	14681	0419	00298	0852
0225	0416 B	3446 C		2736	14705	0439	00341	0749
0250	0422	34532		2741	14713	0458	00386	0700

C-REF-NO 004	YR 1966	DEPTH 140	WAVES 1 0321	AIR T 14.9	VIS 8
CONS. NO 038	MONTH 8	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 48-100N	DAY 23	NO.DPTH 8	WND-DIR 030	WW-CODE 02	
LON 59-310W	HR 19.7	W-COLOR	WND-FCE 03	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1018.0	CLD-AMT 4	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
197	0000	161 B	30815		2254	15058
197	0010	1604	30907		2254	15057
197	0020	1595	30832		2258	15056
197	0030	0657	31777		2496	14736
197	0050	0114	32200		2581	14514
197	0075	0084	32522		2609	14509
197	0100	0092	32948		2642	14523
197	0130	0212	33492		2678	14589

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1610 B	30815		2254	15058	0000	00000	5317
0010	1604	30807		2254	15057	0053	00003	5313
0020	1595	30832		2258	15056	0106	00011	5278
0030	0657	31777		2496	14736	0148	00021	3006
0050	0114	32200		2581	14514	0200	00042	2194
0075	0084	32522		2609	14509	0252	00074	1932
0100	0092	32948		2642	14523	0297	00114	1612
0125	0187	33393		2672	14575	0334	00156	1338

C-REF-NO 004	YR 1966	DEPTH 113	WAVES 1 3621	AIR T 16.1	VIS 8
CONS. NO 039	MONTH 8	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 48-075N	DAY 23	NO.DPTH 7	WND-DIR 360	WW-CODE 02	
LON 59-235W	HR 20.7	W-COLOR	WND-FCE 03	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1018.0	CLD-AMT 3	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
207	0000	163 B	30765		2245	15063
207	0010	1622	30765		2247	15062
207	0020	1517	30915		2282	15033
207	0030	0468	31891		2527	14660
207	0050	0197	32128		2570	14550
207	0075	0091	32639		2618	14514
207	0100	0115	32904		2638	14533

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1630 B	30765		2245	15063	0000	00000	5397
0010	1622	30765		2247	15062	0054	00003	5382
0020	1517	30915		2282	15033	0106	00011	5055
0030	0468	31891		2527	14660	0145	00020	2711
0050	0197	32128		2570	14550	0196	00040	2302
0075	0091	32639		2618	14514	0248	00073	1847
0100	0115	32904		2638	14532	0292	00112	1659

C-REF-NO 004	YR 1966	DEPTH 91	WAVES 1 3620	AIR T 16.6	VIS 8
CONS. NO 040	MONTH 8	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 48-040N	DAY 23	NO.DPTH 6	WND-DIR 360	WW-CODE 02	
LON 59-155W	HR 21.8	W-COLOR	WND-FCE 02	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1017.0	CLD-AMT 2	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
218	0000	166 B	31028		2259	15076
218	0010	1634	31022		2264	15069
218	0020	1059	31498		2415	14884
218	0030	0339	32138		2559	14609
218	0050	0162	32393		2594	14538
218	0075	0121	32725		2623	14529

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1660 B	31028		2259	15076	0000	00000	5269
0010	1634	31022		2264	15069	0053	00003	5220
0020	1059	31498		2415	14884	0098	00009	3784
0030	0339	32138		2559	14609	0129	00017	2404
0050	0162	32393		2594	14538	0174	00035	2077
0075	0121	32725		2623	14529	0223	00066	1799

C-REF-NO 004 YR 1966 DEPTH 143 WAVES 1 1020 AIR T 14.9 VIS 8
 CONS. NO 041 MONTH 8 MXSAMPD 01 WAVES 2 XX WET 8 STN
 LAT 47-350N DAY 24 NO.DPTH 7 WND-DIR 100 WW-CODE 03
 LON 58-375W HR 09.1 W-COLOR WND-FCE 03 CLD-TPE
 MARSD SQ 150 C/I 1810 W-TRNSP BARO 1016.0 CLD-AMT 8 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
091	0000	142 B	31347		2335	15003
091	0010	1397	31370		2342	14998
091	0020	0649	32209		2531	14737
091	0030	0434	32394		2570	14653
091	0050	0240	32504		2597	14574
091	0074	0128	32657		2617	14531
091	0099	0113	32906		2638	14531

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1420 B	31347		2335	15003	0000	00000	4539
0010	1397	31370		2342	14998	0045	00002	4480
0020	0649	32209		2531	14737	0081	00007	2672
0030	0434	32394		2570	14653	0106	00014	2298
0050	0240	32504		2597	14574	0150	00031	2048
0075	0119 B	3268 B		2619	14527	0199	00062	1836
0100	0115	32917		2639	14533	0243	00101	1650

C-REF-NO 004	YR 1966	DEPTH 166	WAVES 1 1021	AIR T 14.4	VIS 8
CONS. NO 042	MONTH 8	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 47-280N	DAY 24	NO.DPTH 8	WND-DIR 100	WW-CODE 02	
LON 58-380W	HR 10.3	W-COLOR	WND-FCE 04	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1013.0	CLD-AMT 2	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
103	0000	152 B	31599		2333	15039
103	0010	1511	31590		2335	15037
103	0019	0484	32229		2552	14670
103	0029	0201	32360		2588	14552
103	0048	0148	32525		2605	14534
103	0072	0092	32709		2623	14515
103	0096	0085	32875		2637	14518
103	0141	0205	33487		2678	14587

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1520 B	31599		2333	15039	0000	00000	4555
0010	1511	31590		2335	15037	0046	00002	4546
0020	0431 F	3226 B		2560	14648	0081	00007	2399
0030	0190 C	32370		2590	14547	0103	00013	2113
0050	0142	32541		2607	14531	0144	00029	1952
0075	0088	32727		2625	14514	0191	00059	1778
0100	0089	3295 E		2643	14521	0234	00097	1609
0125	0143	3326 C		2664	14554	0272	00141	1410

C-REF-NO 004	YR 1966	DEPTH 165	WAVES 1 1321	AIR T 14.4	VIS 8
CONS. NO 043	MONTH 8	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 47-210N	DAY 24	NO.DPTH 8	WND-DIR 100	WW-CODE 02	
LON 58-370W	HR 12.4	W-COLOR	WND-FCE 04	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1013.0	CLD-AMT 2	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
124	0000	152 B	31532		2328	15038
124	0009	1509	31504		2328	15035
124	0018	0504	32373		2561	14680
124	0027	0344	32443		2583	14615
124	0045	0196	32559		2604	14555
124	0068	0114	32689		2620	14524
124	0091	0086	32795		2631	14516
124	0136	0052	32961		2646	14511

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1520 B	31532		2328	15038	0000	00000	4604
0010	1401 I	3160 G		2358	15002	0045	00002	4320
0020	0429 I	3242 F		2573	14650	0078	00007	2271
0030	0309 B	32464		2588	14600	0100	00012	2132
0050	0171	32589		2609	14545	0141	00029	1934
0075	0102	32723		2624	14520	0188	00059	1789
0100	0062 D	32836		2635	14508	0232	00098	1681
0125	0049 B	32927		2643	14507	0273	00145	1603

C-REF-NO 004	YR 1966	DEPTH 397	WAVES 1 1321	AIR T 14.4	VIS 8
CONS. NO 044	MONTH 8	MXSAMPD 02	WAVES 2 XX	WET B	STN
LAT 47-145N	DAY 24	NO.DPTH 12	WND-DIR 130	WW-CODE 02	
LON 58-505W	HR 14.5	W-COLOR	WND-FCE 05	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1011.0	CLD-AMT 2	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
145	0000	157 B	31352		2304	15052
145	0008	1552	31354		2308	15047
145	0013	1552	31326		2306	15048
145	0021	1200	31720		2407	14937
145	0033	0308	32356		2579	14599
145	0051	0206	32480		2597	14559
145	0067	0124	32566		2610	14526
145	0102	0091	32772		2628	14520
145	0135	0119	33142		2656	14543
145	0169	0265	33719		2692	14621
145	0206	0421	34260		2720	14701
145	0245	0436	34509		2738	14717

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1570 B	31352		2304	15052	0000	00000	4840
0010	1562 D	3133 B		2304	15050	0049	00002	4840
0020	1261 B	3166 C		2390	14957	0093	00009	4017
0030	0521 I	3222 D		2547	14686	0126	00017	2522
0050	0192 G	3249 B		2599	14553	0172	00035	2027
0075	0105 B	3260 B		2614	14520	0221	00067	1882
0100	0089	32757		2627	14519	0267	00108	1755
0125	0102	33011		2647	14532	0309	00156	1570
0150	0176 C	3339 C		2672	14575	0345	00207	1333
0175	0295 B	33820		2697	14637	0376	00258	1105
0200	0400 B	34185		2716	14691	0402	00307	0933
0225	0427 E	3439 D		2730	14709	0423	00354	0809

C-REF-NO 004	YR 1966	DEPTH 435	WAVES 1 1333	AIR T 13.3	VIS 5
CONS. NO 045	MONTH 8	MXSAMPD 04	WAVES 2 XX	WET B	STN
LAT 47-085N	DAY 24	NO.DPTH 12	WND-DIR 130	WW-CODE 61	
LON 59-020W	HR 16.6	W-COLOR	WND-FCE 05	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1009.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
166	0000	148 B	31251		2315	15022
166	0009	1487	31433		2328	15028
166	0017	1335	31531		2366	14980
166	0025	0527	32293		2552	14689
166	0042	0176	32482		2600	14544
166	0063	0108	32703		2622	14521
166	0084	0089	32889		2638	14518
166	0127	0166	33356		2670	14566
166	0169	0349	34009		2707	14661
166	0212	0428	34373		2728	14707
166	0256	0424	34542		2742	14715
166	0354	0422	34757		2759	14733

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1480 B	31251		2315	15022	0000	00000	4729
0010	1490 E	3143 C		2327	15029	0047	00002	4621
0020	1046 I	3180 I		2440	14883	0088	00008	3538
0030	0314 I	3245 I		2586	14602	0116	00015	2147
0050	0123 G	32569		2610	14523	0157	00032	1919
0075	0092	32810		2631	14517	0203	00061	1717
0100	0102	33044		2650	14529	0244	00097	1545
0125	0159	33331		2669	14562	0281	00140	1365
0150	0266 D	3372 E		2692	14619	0313	00184	1154
0175	0366	34075		2711	14670	0340	00229	0979
0200	0416	34297		2723	14699	0363	00273	0865
0225	0431 B	3444 B		2733	14711	0384	00318	0779
0250	0427	34526		2740	14715	0402	00364	0710
0300	0453 F	3472 F		2753	14737	0435	00456	0596

C-REF-NO 004 YR 1966 DEPTH 438 WAVES 1 1234 AIR T 13.3 VIS 5
 CONS. NO 046 MONTH 8 MXSAMPD 04 WAVES 2 XX WET B STN
 LAT 47-024N DAY 24 NO.DPTH 12 WND-DIR 120 WW-CODE 61
 LON 59-132W HR 18.5 W-COLOR WND-FCE 06 CLD-TPE
 MARSD SQ 150 C/I 1810 W-TRNSP BARO 1006.0 CLD-AMT 8 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
185	0000	148 B	31297		2319	15022
185	0010	1472	31407		2329	15023
185	0019	1386	31511		2355	14997
185	0028	0395	32314		2568	14635
185	0047	0172	32473		2599	14543
185	0071	0097	32610		2615	14516
185	0094	0086	32769		2628	14517
185	0141	0097	33481		2685	14539
185	0188	0349	34080		2713	14665
185	0236	0416	34445		2735	14707
185	0283	0419	34603		2747	14718
185	0380	0421	34761		2760	14737

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1480 B	31297		2319	15022	0000	00000	4695
0010	1472	31407		2329	15023	0047	00002	4601
0020	1284 I	3160 E		2381	14964	0090	00009	4104
0030	0308 I	3238 H		2581	14599	0122	00017	2195
0050	0155 B	32491		2602	14536	0164	00034	1998
0075	0093	32632		2617	14515	0213	00064	1853
0100	0079 B	3285 C		2635	14516	0257	00104	1680
0125	0077 D	3322 F		2665	14524	0296	00148	1400
0150	0143 F	33609		2692	14563	0328	00193	1143
0175	0276 G	33932		2708	14630	0355	00238	1004
0200	0378 B	34193		2719	14681	0379	00284	0904
0225	0412 B	34381		2730	14702	0401	00331	0800
0250	0420	3451 B		2739	14712	0420	00378	0718
0300	0439 E	3469 F		2752	14730	0453	00471	0603

C-REF-NO 004	YR 1966	DEPTH 420	WAVES 1 1433	AIR T 13.3	VIS 5
CONS. NO 047	MONTH 8	MXSAMPD 04	WAVES 2 XX	WET B	STN
LAT 46-560N	DAY 24	NO.DPTH 12	WND-DIR 140	WW-CODE 61	
LON 59-245W	HR 20.4	W-COLOR	WND-FCE 06	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 1005.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
204	0000	148 B	31484		2333	15024
204	0010	1478	31485		2334	15025
204	0019	0526	32223		2547	14687
204	0028	0353	32536		2590	14620
204	0047	0176	32414		2594	14544
204	0071	0116	32688		2620	14525
204	0095	0102	32815		2631	14525
204	0142	0143	33280		2666	14557
204	0189	0334	33982		2706	14658
204	0237	0421	34405		2731	14708
204	0284	0413	34612		2749	14716
204	0383	0418	34775		2761	14736

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1480 B	31484		2333	15024	0000	00000	4558
0010	1478	31485		2334	15025	0046	00002	4556
0020	0486 F	32274		2556	14671	0081	00007	2440
0030	0326	3254 E		2593	14609	0104	00013	2088
0050	0162 B	3244 C		2597	14539	0145	00030	2042
0075	0111	3271 B		2622	14524	0194	00061	1803
0100	0101	32852		2634	14525	0238	00100	1690
0125	0114	33082		2652	14539	0278	00146	1524
0150	0174 C	3340 C		2673	14574	0314	00197	1323
0175	0275 E	3378 E		2695	14627	0345	00248	1121
0200	0363	34101		2713	14674	0371	00298	0958
0225	0409	34323		2726	14700	0394	00347	0840
0250	0423 B	34477		2737	14712	0414	00396	0743
0300	0444 H	3470 E		2752	14732	0448	00491	0601

C-REF-NO 004	YR 1966	DEPTH 355	WAVES 1 1633	AIR T 17.2	VIS 4
CONS. NO 048	MONTH 8	MXSAMPD 03	WAVES 2 XX	WET B	STN
LAT 46-498N	DAY 24	NO.DPTH 12	WND-DIR 170	WW-CODE 20	
LON 59-365W	HR 22.4	W-COLOR	WND-FCE 06	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 999.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
224	0000	147 B	31343		2324	15020
224	0010	1432	31390		2336	15009
224	0020	0514	32310		2555	14683
224	0030	0227	32326		2584	14563
224	0049	0150	32528		2605	14535
224	0074	0094	32694		2622	14516
224	0098	0088	32884		2638	14520
224	0147	0208	33516		2680	14590
224	0196	0376	34206		2720	14680
224	0246	0410	34480		2738	14706
224	0295	0420	34627		2749	14721
224	0334	0420	34734		2758	14728

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1470 B	31343		2324	15020	0000	00000	4641
0010	1432	31390		2336	15009	0046	00002	4534
0020	0514	32310		2555	14683	0081	00007	2443
0030	0227	32326		2584	14563	0104	00013	2173
0050	0147	32535		2606	14533	0146	00030	1959
0075	0093	32701		2623	14516	0193	00060	1801
0100	0091	32906		2639	14522	0237	00099	1643
0125	0140 C	3321 C		2660	14552	0276	00143	1445
0150	0220	33563		2683	14596	0309	00190	1234
0175	0309 D	3393 E		2705	14644	0338	00238	1033
0200	0382	34238		2722	14683	0362	00284	0874
0225	0406 B	3440 C		2732	14700	0383	00329	0780
0250	0411	34495		2739	14708	0402	00375	0717
0300	0422	3466 B		2751	14723	0435	00469	0612

C-REF-NO 004	YR 1966	DEPTH 154	WAVES 1 2733	AIR T 17.2	VIS 5
CONS. NO 049	MONTH 8	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 46-460N	DAY 24	NO.DPTH 8	WND-DIR 270	WW-CODE 42	
LON 59-440W	HR 23.5	W-COLOR	WND-FCE 06	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 999.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
235	0000	153 B	30852		2274	15033
235	0010	1483	31088		2302	15022
235	0020	0889	31996		2481	14827
235	0030	0376	32285		2568	14627
235	0050	0144	32536		2606	14532
235	0075	0093	32735		2625	14516
235	0100	0126	33043		2648	14539
235	0125	0205	33478		2677	14585

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1530 B	30852		2274	15033	0000	00000	5123
0010	1483	31088		2302	15022	0050	00002	4857
0020	0889	31996		2481	14827	0090	00008	3152
0030	0376	32285		2568	14627	0118	00015	2326
0050	0144	32536		2606	14532	0161	00032	1957
0075	0093	32735		2625	14516	0208	00062	1775
0100	0126	33043		2648	14539	0250	00100	1561
0125	0205	33478		2677	14585	0286	00140	1287

C-REF-NO 004	YR 1966	DEPTH 64	WAVES 1 2722	AIR T 17.2	VIS 7
CONS. NO 050	MONTH 8	MXSAMPD 00	WAVES 2 XX	WET B	STN
LAT 46-410N	DAY 25	NO.DPTH 5	WND-DIR 270	WW-CODE 01	
LON 59-526W	HR 00.9	W-COLOR	WND-FCE 05	CLD-TPE	
MARSD SQ 150	C/I 1810	W-TRNSP	BARO 999.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
009	0000	167 B	29579		2146	15061
009	0010	1650	29411		2137	15055
009	0020	1438	31132		2315	15010
009	0030	0386	31619		2514	14622
009	0050	0223	32375		2588	14565

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1670 B	29579		2146	15061	0000	00000	6351
0010	1650	29411		2137	15055	0064	00003	6433
0020	1438	31132		2315	15010	0120	00011	4737
0030	0386	31619		2514	14622	0158	00021	2837
0050	0223	32375		2588	14565	0208	00040	2133

C-REF-NO 004	YR 1966	DEPTH 118	WAVES 1 2722	AIR T	VIS 7
CONS. NO 051	MONTH 8	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 46-410N	DAY 25	NO.DPTH 7	WNO-DIR 270	WW-CODE 01	
LON 60-042W	HR 02.2	W-COLOR	WNO-FCE 05	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1000.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
022	0000	173 B	29618		2135	15080
022	0010	1772	29580		2122	15094
022	0020	1773	29577		2122	15096
022	0030	1503	29757		2196	15016
022	0050	0421	32266		2562	14649
022	0075	0127	32564		2610	14529
022	0100	0109	32844		2633	14529

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1730 B	29618		2135	15080	0000	00000	6453
0010	1772	29580		2122	15094	0065	00003	6578
0020	1773	29577		2122	15096	0131	00013	6585
0030	1503	29757		2196	15016	0194	00029	5878
0050	0421	32266		2562	14649	0277	00060	2383
0075	0127	32564		2610	14529	0331	00094	1925
0100	0109	32844		2633	14529	0377	00134	1701

C-REF-NO 004	YR 1966	DEPTH 118	WAVES 1 2722	AIR T 16.6	VIS 8
CONS. NO 052	MONTH 8	MXSAMPD 01	WAVES 2 XX	WET B	STN
LAT 46-413N	DAY 25	NO.DPTH 7	WND-DIR 270	WW-CODE 02	
LON 60-153W	HR 03.5	W-COLOR	WND-FCE 05	CLD-TPE	
MARSD SQ 151	C/I 1810	W-TRNSP	BARO 1001.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
035	0000	182 B	29532		2107	15106
035	0010	1804	29526		2111	15103
035	0020	1710	29675		2144	15078
035	0029	1331	29992		2249	14962
035	0049	0423	32339		2567	14651
035	0073	0136	32579		2610	14533
035	0098	0130	32958		2641	14540

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1820 B	29532		2107	15106	0000	00000	6719
0010	1804	29526		2111	15103	0067	00003	6690
0020	1710	29675		2144	15078	0133	00013	6373
0030	1279 C	3011 H		2267	14946	0191	00028	5194
0050	0400 B	3238 E		2572	14641	0266	00056	2280
0075	0022 I	3311 I		2659	14489	0313	00084	1453
0100	0163 D	3289 I		2633	14554	0352	00120	1701

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CANADA



BAFFIN BAY 1962

September 25 to October 24, 1962

No.4

1967 Data Record Series

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DEPARTMENT OF MINES AND TECHNICAL SURVEYS

MARINE SCIENCES BRANCH

BAFFIN BAY 1962

Ship:	CCGS "Labrador"
Local cruise designation:	LAB-11-62
Cruise period:	September 25 - October 24, 1962
Officer-in-Charge:	A. M. Holler
Observers:	J. Dugas
	G. Simoneau
	F. T. Poirier
	R. A. Murphy
	A. Pellerin

BEDFORD INSTITUTE OF OCEANOGRAPHY, Dartmouth, N.S.

SECTION I

Description of data collection procedures

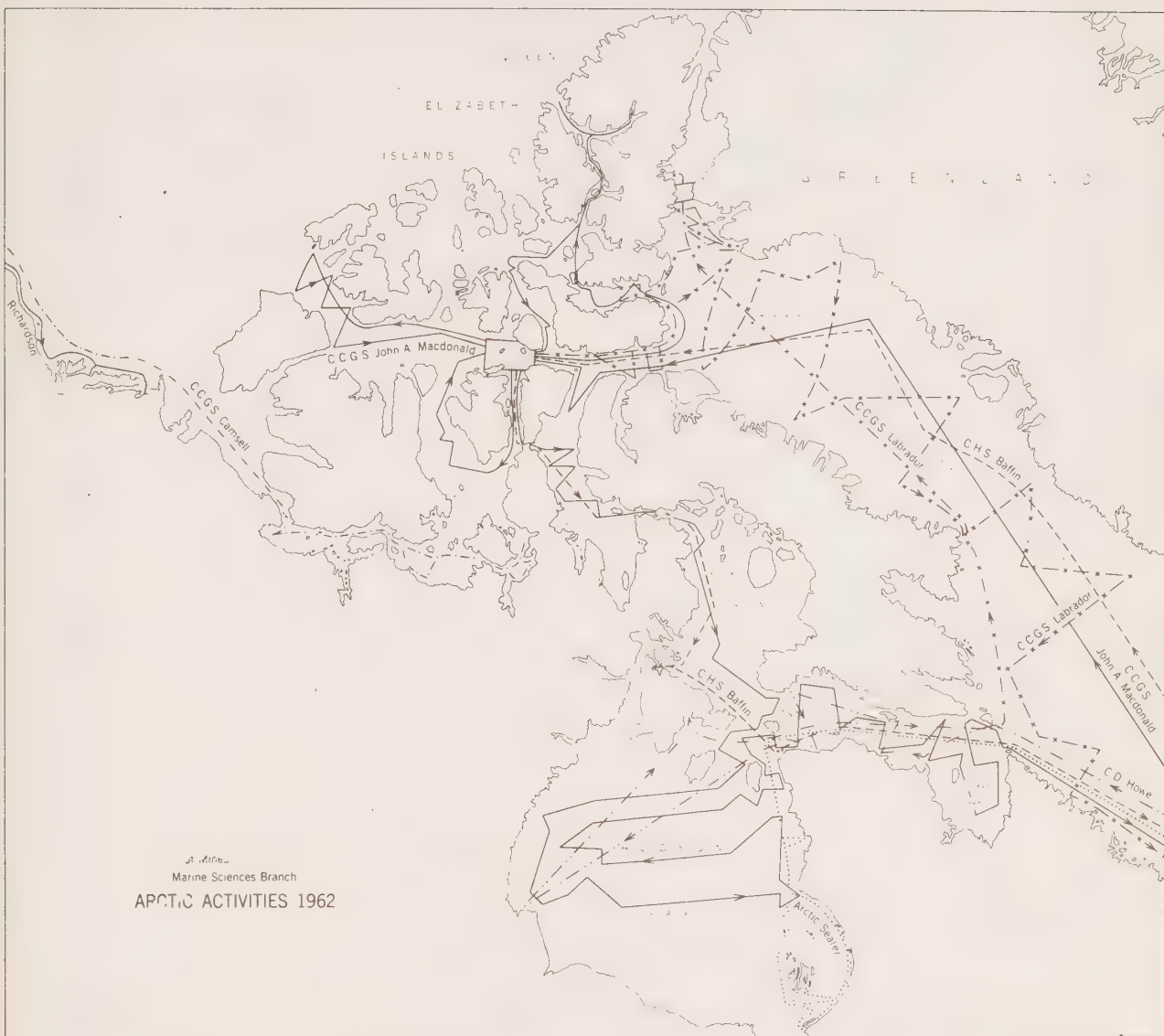


figure: 1



figure : 2a

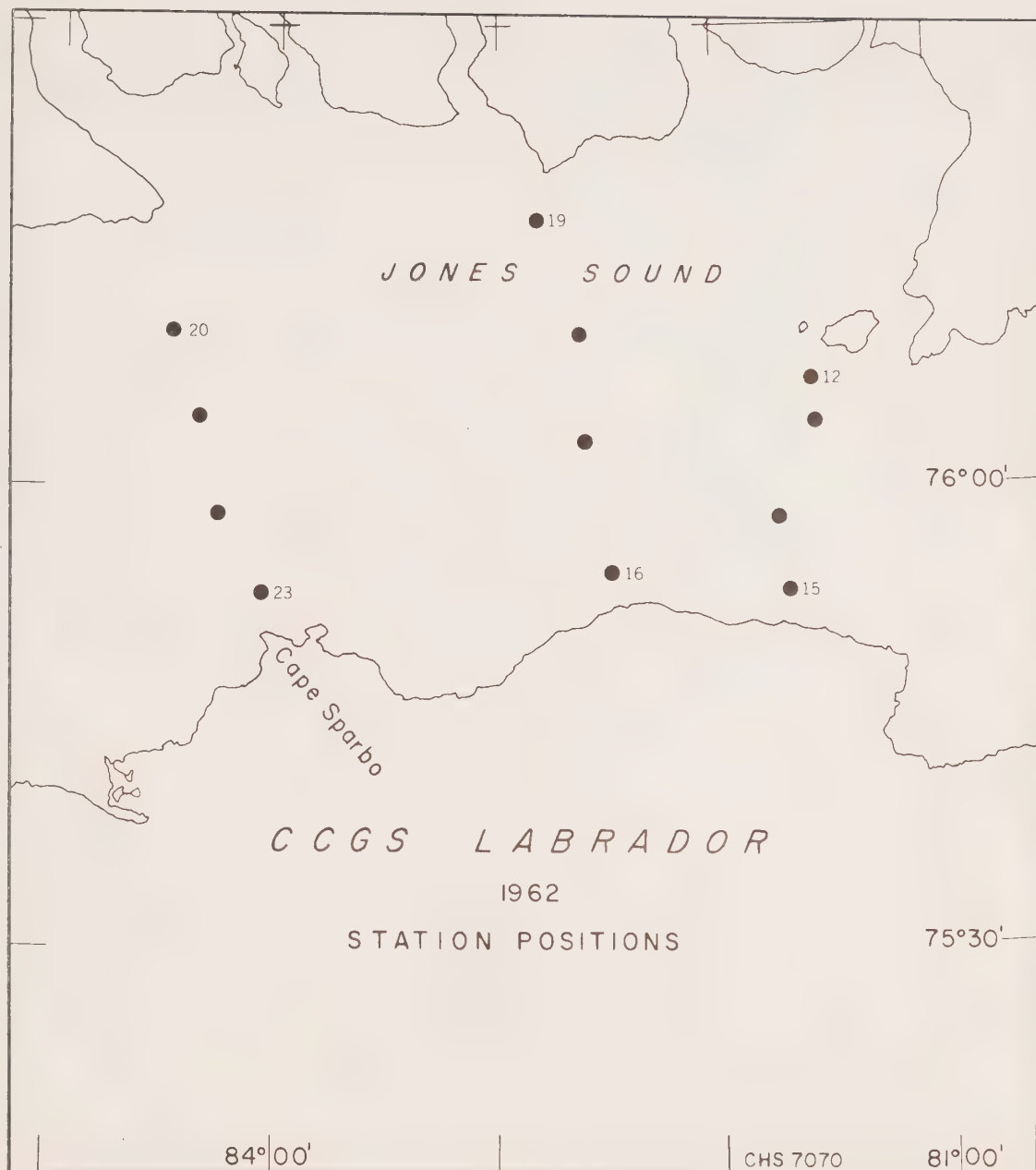


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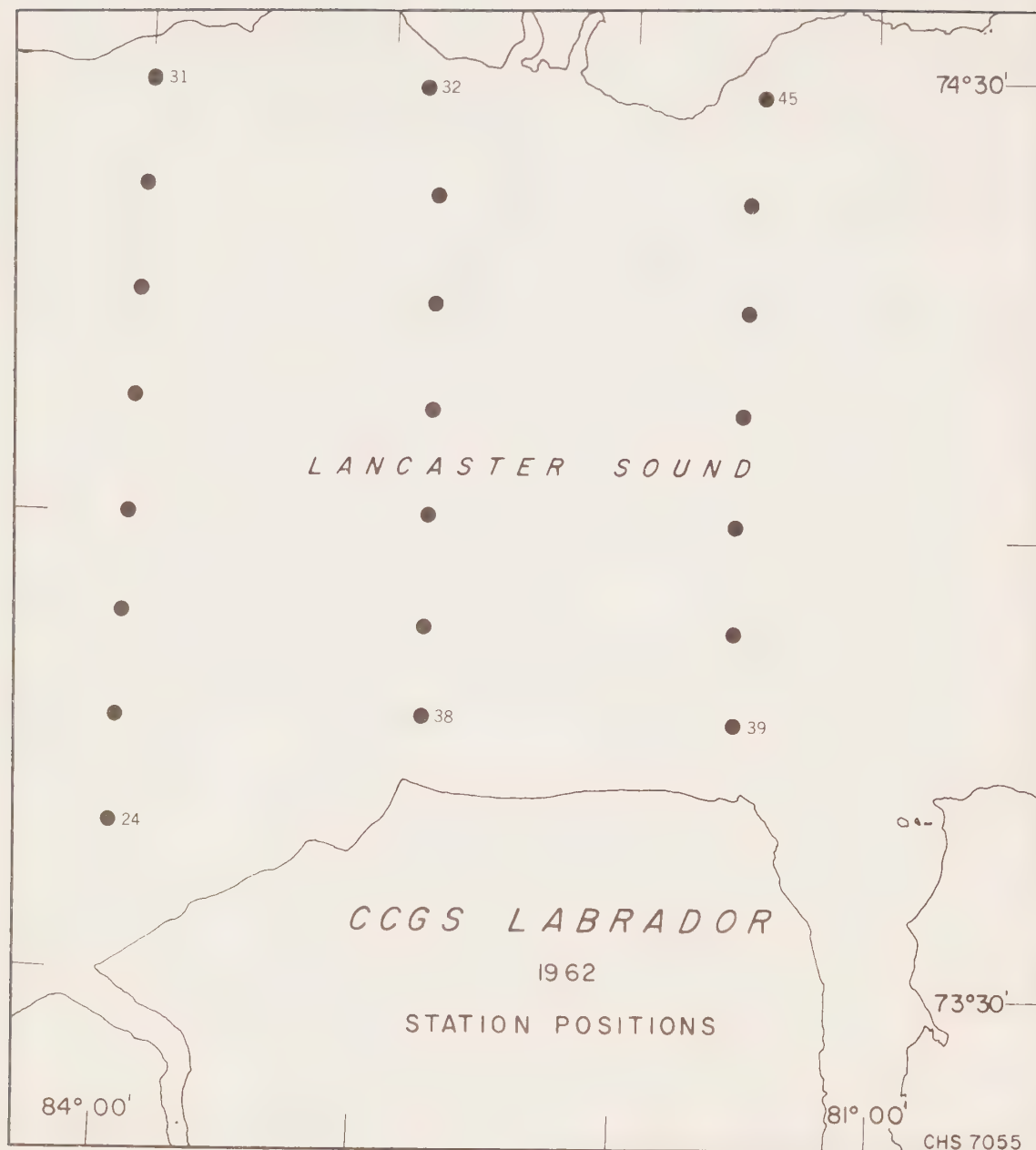


figure: 2 c

CCGS JOHN A MACDONALD

1962

Station Positions

LEGEND

- Stations for serial data
- B T Observations only



CHS 7000

figure: 3a



figure: 3b

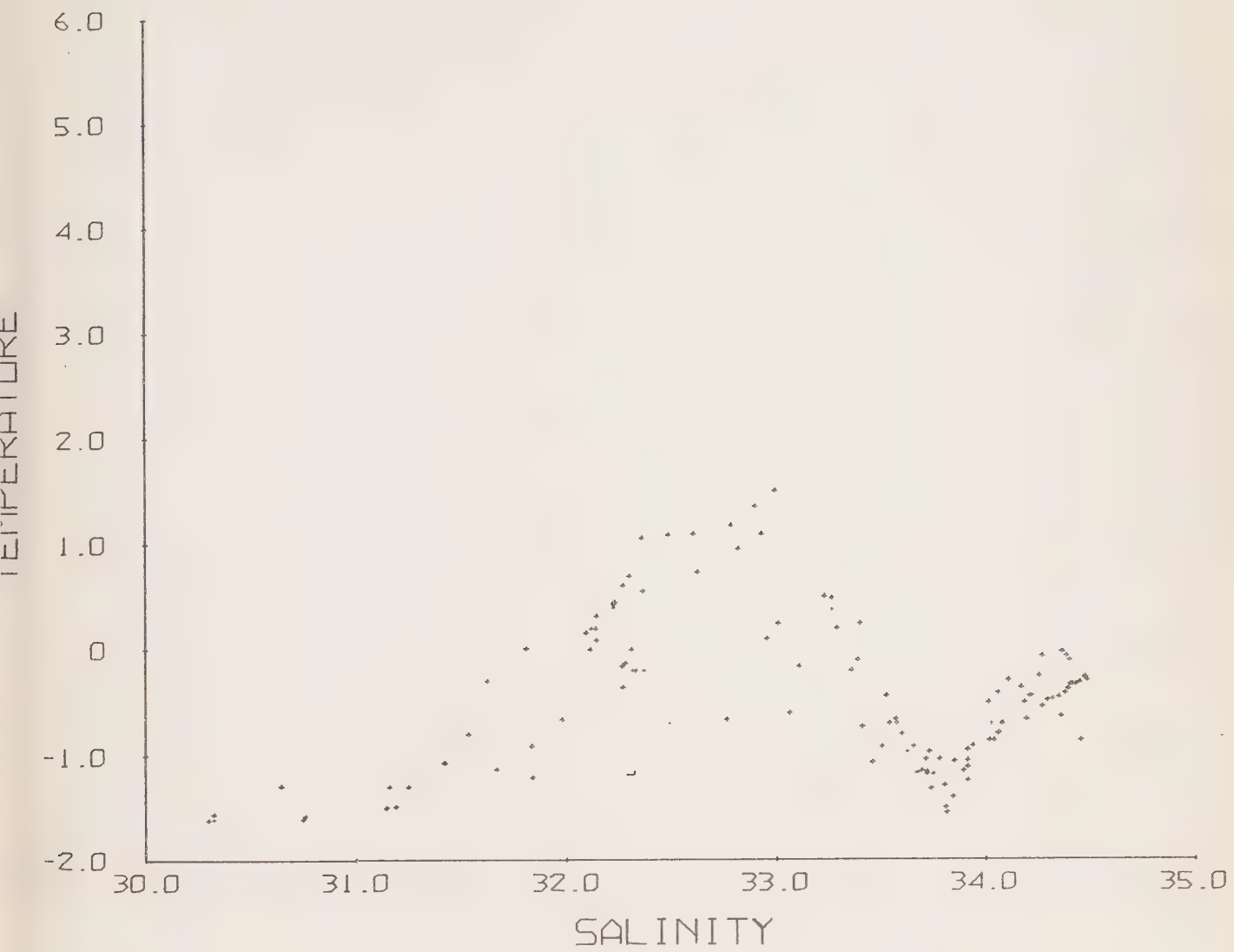


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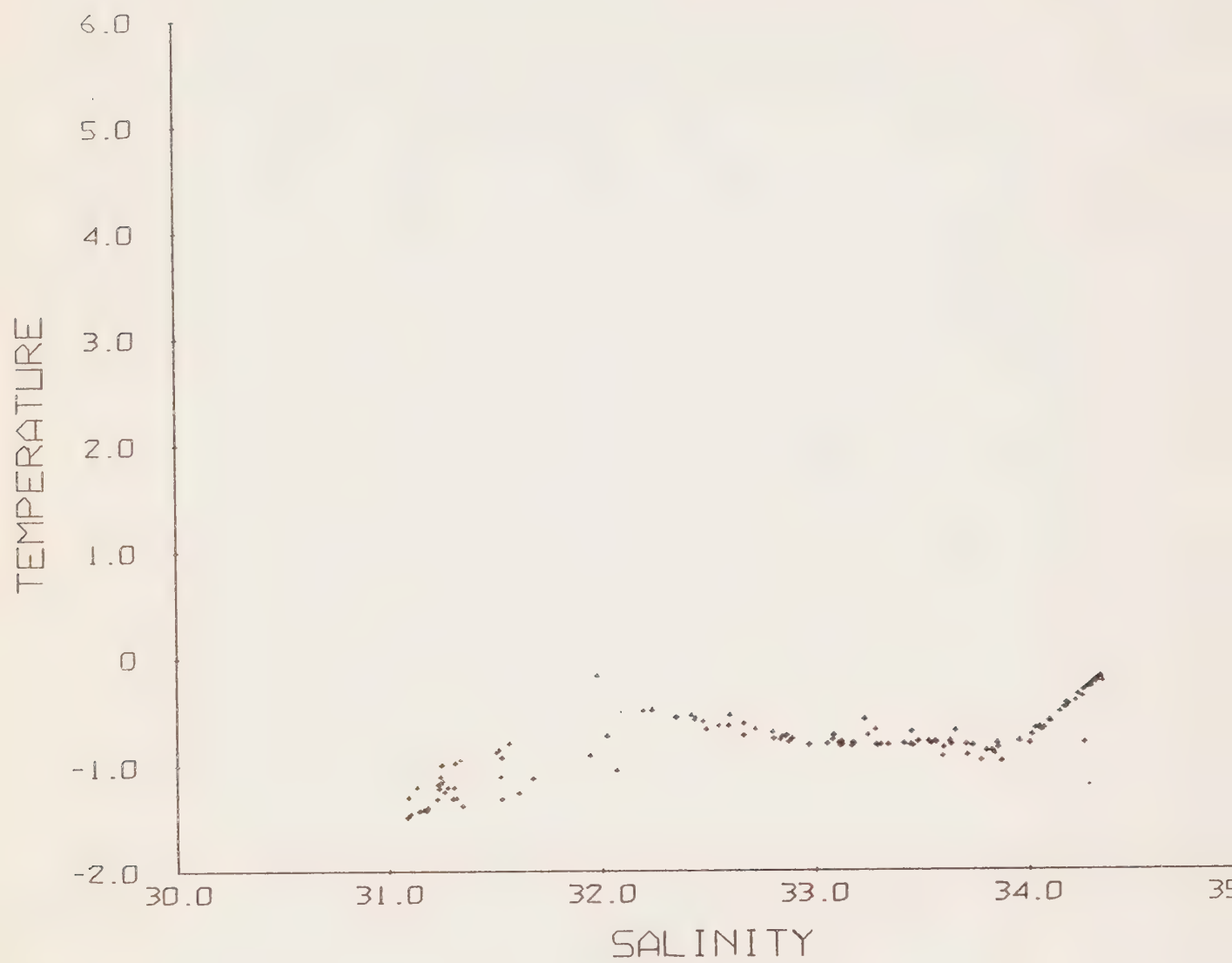


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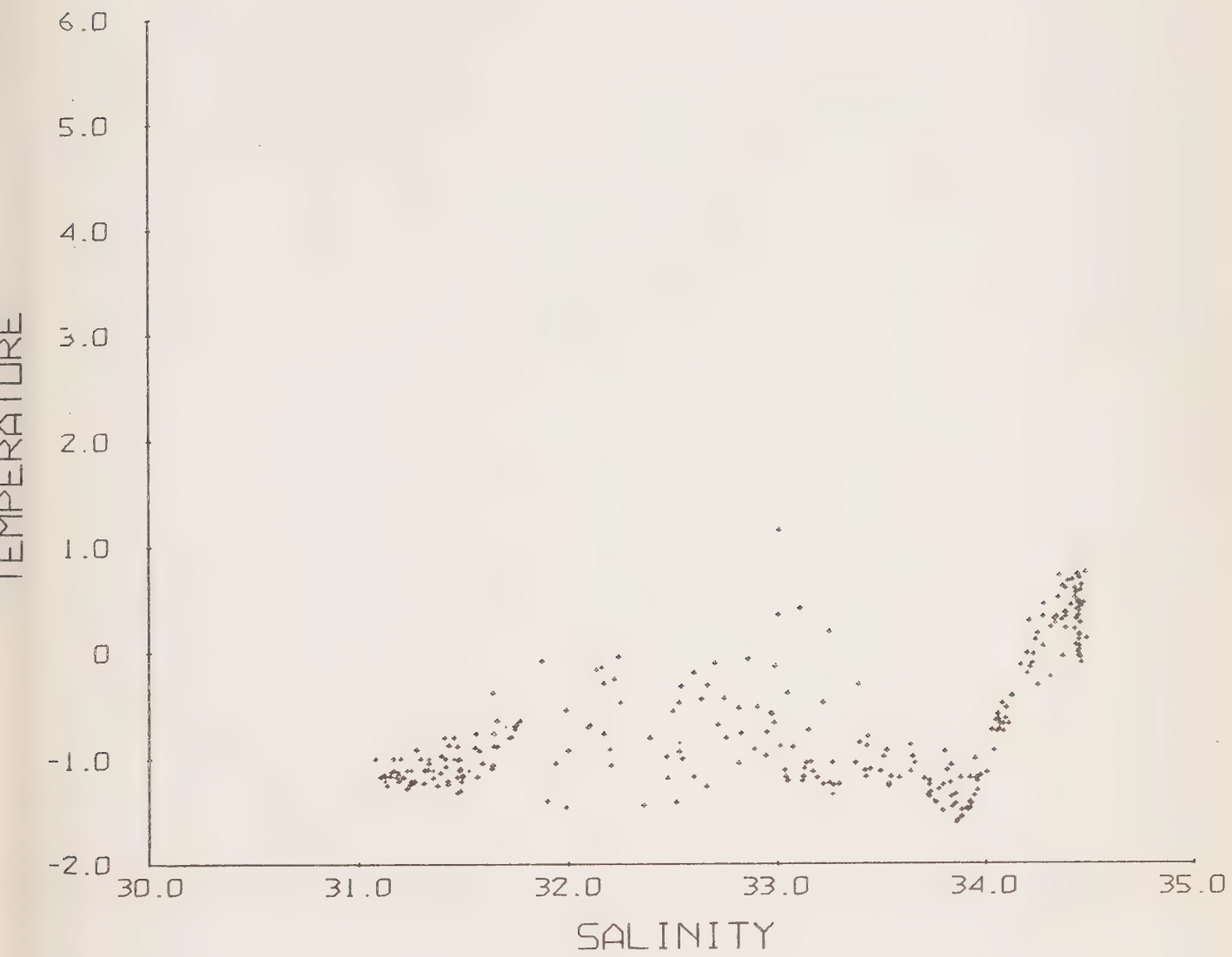


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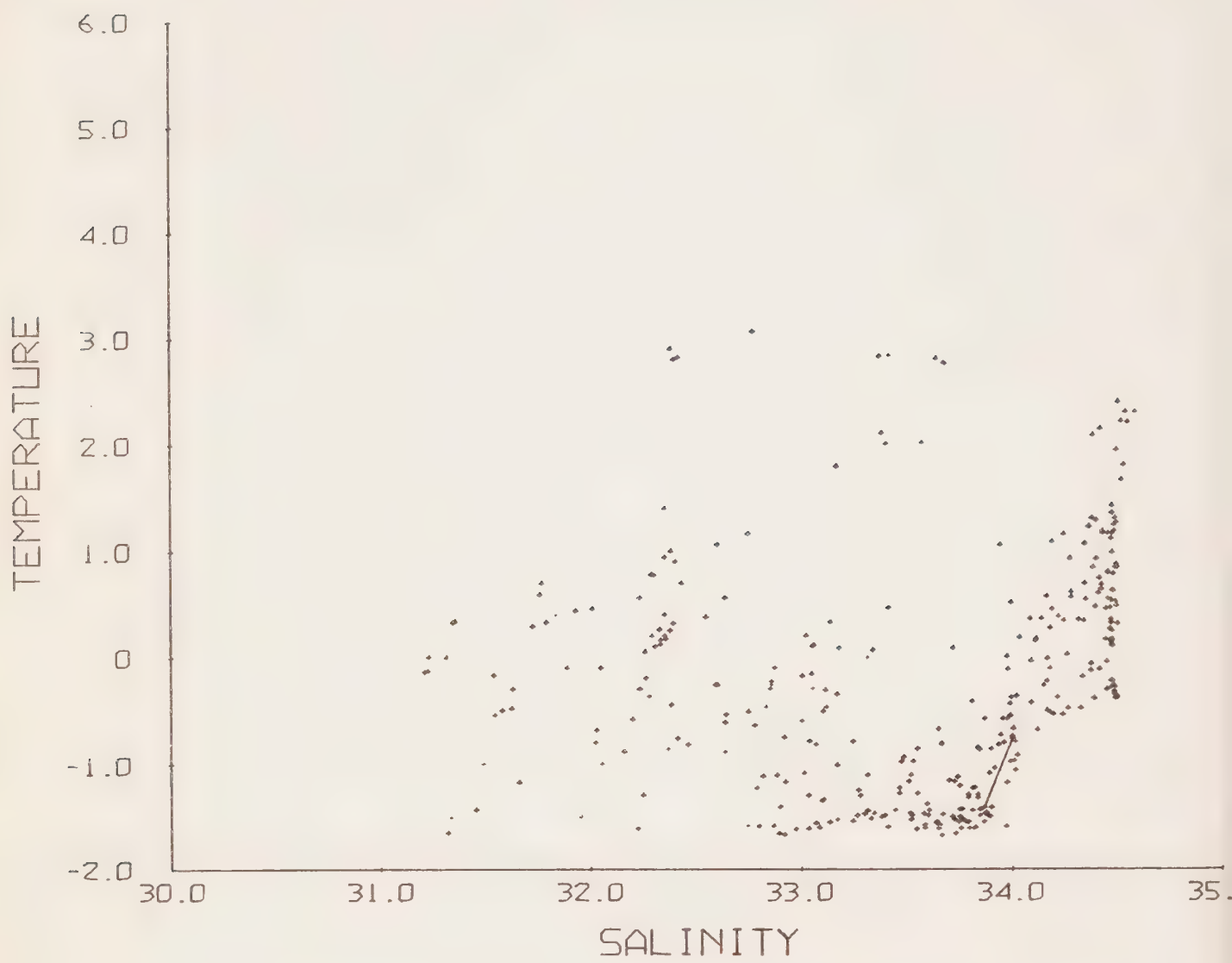


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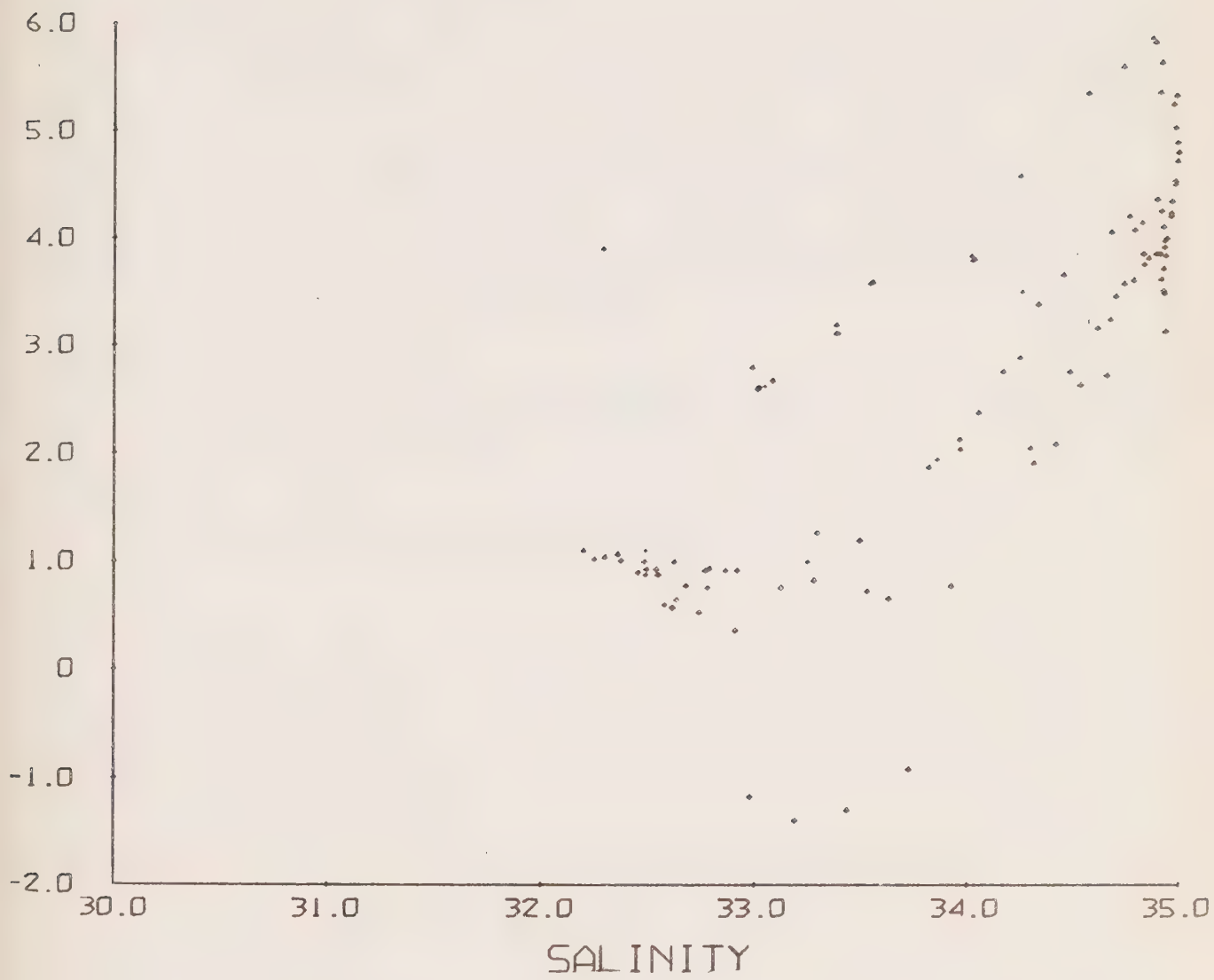


figure: 4e

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- Figure 2: Positions at which stations were occupied or bathythermograph lowerings made by CCGS "Labrador" in the 1962 season. (a) Smith Sound to the Labrador Sea. (b) Jones Sound. (c) Lancaster Sound.
- Figure 3: Positions at which stations were occupied or bathythermograph lowerings made by CCGS "John A. Macdonald" in the 1962 season. (a) North of Fury and Hecla Strait. (b) South of Fury and Hecla Strait.
- Figure 4: A computer generated temperature-salinity relationship of the serial data in the range 30 to 35 ‰. (a) Stations, 1 to 11 occupied in northern Baffin Bay. (b) Stations 12 to 23, occupied in Jones Sound. (c) Stations 24 to 45, occupied in Lancaster Sound. (d) Stations 46 to 72, occupied in Baffin Bay. (e) Stations 73 to 81, occupied in Davis Strait and the Labrador Sea.
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CCGS LABRADOR



Dept. of Transport

INTRODUCTION

In the navigation season of 1962 the Department of Transport icebreakers CCGS "John A. Macdonald" and CCGS "Labrador" were made available for oceanographic survey in Arctic waters. A general account of the work of these and other vessels (Fig. 1) has been provided by Stead (1963), and the oceanographic observations in the "John A. Macdonald" have been reported (Anon., 1966 a). A similar programme was carried out in 1961 by the "John A. Macdonald" and "Labrador" (Anon., 1966 b). Three of the 1962 "Labrador" stations in Smith Sound (consec. numbers 1 to 3) were utilized by Collin (1965 p 8) in a determination of the volume transport through Smith Sound.

This record consists mainly of serial temperature, salinity, and bathythermograph data obtained from the survey of CCGS "Labrador" in which 81 stations were occupied and 90 bathythermograms obtained. At selected stations, sampling for dissolved oxygen, benthos and plankton were also carried out. The extent of the data is indicated in Table I. The approximate station positions and the positions of bathythermograms taken between stations are shown in figure 2.

Ice conditions, other than that condition shown in the shaded area of figure 2a which was observed from the ship during the survey, are not reported here. Information about ice conditions during the 1962 season is available in a publication of the Meteorological Branch (Anon., 1963) and from the reports of Markham and Hill (1962) and Black (1965).

The presentation of this data report is subject to modification and possible correction at a later date. Errors including blunders are known to exist in the observed material and in most instances these are presented without interpretation.

The original records are on file with the Bedford Institute of Oceanography.

EXTRACT OF CRUISE LOG

- SEPT. 25 - Depart Thule, commence oceanographic survey.
 26 - Smith Sound, occupy stations 1 to 4.
 27 - Smith Sound, occupy stations 5 to 9.
 29 - Jones Sound, occupy stations 13 to 20.
 30 - Cape Sparbo, North Coast of Devon Island,
 occupy stations 21 to 23.
- OCT. 2 - Lancaster Sound, occupy stations 24 to 26.
 3 - " " " " 27 to 36.
 4 - " " " " 37 to 45.
 5 - Off Cape Parker, occupy stations 46 to 47.
 6 - Baffin Bay " " 48 to 50.
 7 - " " " " 51 to 53.
 8 - " " " " 54 and 55.
 9 - " " " " 56 to 59.
 10 - " " " " 60 to 62.
 11 - " " " " 63 and 64.
 12 - " " " " 65 to 67.
 13 - Davis Strait, off Cape Dyer,
 mail drop, occupy stations 68 and 69.
 14 - Davis Strait, occupy station 70.
 15 - " " " stations 71 and 72.
 16 - " " " stations 73 and 74.
 17 - " " " stations 75 and 76.
 19 - " " " stations 77 and 78.
 20 - Labrador Sea, " stations 79 to 81.
 survey completed. Ship proceeds to Halifax, N.S.
 24 - Ship arrives Halifax Harbour

OBSERVATIONAL PROCEDURES

Standard routine was to carry out the bathythermograph lowerings first, and then the shallow and deep bottle casts. Both Knudsen type and Nansen type bottles were used, the latter on casts below 1000 metres. Each bottle was fitted with two protected reversing thermometers, unprotected thermometers were added at selected depths.

Each temperature was read twice after the auxiliary thermometers had reached equilibrium, but due to lack of personnel the temperature was not always read by two different observers.

Surface temperatures were measured with a separate thermometer contained in a thermometer towing frame. The readings were frequently compared with the observations taken by the ice observer.

A calibration cast was made to 1000 metres and this appears in the record immediately after consecutive station number 81.

Samples for dissolved oxygen determinations were drawn at a few stations. These were analyzed on board using a modified Winkler Method.

Samples for salinity determinations were drawn into flat 8 oz. glass medicine bottles with hard plastic caps fitted with polyethylene inserts. These were stored aboard and later determined on arrival at Halifax.

The program of plankton collections was planned by the Fisheries Research Board, Arctic Unit. A Hensen net was used for vertical hauls down to 150 metres, while a small one foot net was used on the deeper vertical hauls of up to 700 metres.

A Dietz LaFond grab was used for all the bottom sampling. The samples were placed in plastic bags and preserved with formalin, and were forwarded to the Arctic Unit of the Fisheries Research Board in Montreal.

The tabulated depths were obtained from the readings of a standard metre block and from the readings of the rope angle. Unprotected thermometers were used on the deep casts. The tabulated temperatures are a means of the two readings of the two thermometers on each reversing bottle.

Salinity determinations were made on a NIO salinometer (Cox, 1961) at the Bedford Institute of Oceanography.

A computer generated temperature-salinity relation (Wilson, 1967) of all the data is shown in Figure 4.

BATHYTHERMOGRAPH DATA

The bathythermograph data presented here in Section IV were reproduced from aperture cards (Sauer, 1964) which had been made from photographs of the BT slides; the slides were not available. The aperture cards were processed through a reader printer unit (Trade name: 3 m Reader Printer model 400) at the Canadian Oceanographic Data Centre. The output of photo positives (approx. 5" x 8") was then cropped and affixed to photo-copy masters after the serial temperatures were inked in.

In the presentation here the consecutive slide number has been typed on each bathythermogram. The number relates each bathythermogram to the appropriate consecutive station number of Table 1 and to the detailed information concerning the BT data of Table 2.

PERSONNEL

Field personnel comprised A. Holler (the officer-in-charge), J. Dugas, G. Simoneau, F.T. Poirier, R.A. Murphy and A. Pellerin.

The record was prepared for publication by W.J.B. Kelly.

Table 1: The table relates the consecutive station number to the consecutive slide number (see Section IV) and indicates the extent of serial and biological sampling at each station.

Consec. BT Slide No.	Consec. Station No.	Serial Data			Plankton Hauls		Bottom Grab
		T	S	O ₂	Shallow	Deep	
1	1	X	X				
2	2	X	X				
3	3	X	X				
4	4	X	X				
5	5	X	X				
6	6	X	X				
7	7	X	X		X		
8	8	X	X				
9	9	X	X				
10	10	X	X				
11	11	X	X				
12	12	X	X				
13	13	X	X				
14	14	X	X				
15	15	X	X				
16	16	X	X				
17	17	X	X				
18	18	X	X				
19	19	X	X				
20	20	X	X				
21	21	X	X		X	X	
22	22	X	X				
23	23	X	X				
24	24	X	X				
25	25	X	X				
26	26	X	X		X	X	
27	27	X	X				
28	28	X	X				
29	29	X	X				
30	30	X	X				
31	31	X	X				
32	32	X	X				
33	33	X	X				
34	34	X	X				
35	35	X	X				
36	36	X	X				
37	37	X	X				
38	38	X	X				
39	39	X	X				
40	40	X	X				
41	41	X	X				
42	42	X	X				
43	43	X	X				
44	44	X	X				
45	45	X	X				

Consec. BT Slide No.	Consec. Station No.	Serial Data			Plankton Hauls		Bottom Grab
		T	S	O ₂	Shallow	Deep	
46	46	X	X		X		X
47	47	X	X		X		X
48	48	X	X	X	X	X	X
49	49	X	X		X		X
50	50	X	X	X	X	X	X
51	51	X	X	X	X		
52	52	X	X		X	X	X
53	53	X	X		X	X	X
54	54	X	X		X		X
55	55	X	X		X		X
56	56	X	X		X		X
57	57	X	X		X		X
58	58	X	X		X		X
59	59	X	X		X	X	
60	60	X	X		X		
61	61	X	X		X		
	15.4/10/X	X	X		Calibration Cast		
62	62	X	X		X		X
63	63	X	X	X			
64	64	X	X				
65	65	X	X				X
66	66	X	X				
67	67	X	X				
68	68	X	X				
69							
70	69	X	X				
71							
72	70	X	X				
73							
74	71	X	X				
75							
76	72	X	X				
77							
78	73	X	X				X
79							
80	74	X	X				
81							
82	75	X	X				
83	76	X	X				
84							
85							
86	77	X	X				
87	78	X	X				
88	79	X	X				
89	80	X	X				
90	81	X	X				

SECTION II

Description of the machine-generated data record

INTRODUCTION

This section applies to the machine processing phase of the data reduction and computation.

The oceanographic data previously recorded on CODC data summary forms, a sample of which is shown on the next page, are transferred to punch-cards for subsequent electronic data processing on an IBM 1620 computer, using CODC's OCEANS II program. In addition to computing routine derived quantities, the program carries out unit and format conversions, range checks, plausibility tests, internal editing, and if required, interpolation at standard oceanographic depths. When interpolations are carried out, additional derived values are computed.

After the data have been processed, the data record is prepared using an IBM 1401 computer configuration with the OCEAN REPORT III program, which provides for pre-edited high speed print-out on continuous direct-image masters. These masters subsequently yield the required volume of copies for distribution.

Provision has been made to enter an "**estimate of precision**" for each observed variable selected for interpolation at standard oceanographic depths. The precision depends on the instrument and/or technique used to determine the variable. A standard precision stated as a **standard deviation** (σ) can be determined for each instrument or technique under routine field conditions by making duplicate determinations of the variables for a homogeneous sample of sea water. These standard deviations are given for each cruise under "GENERAL INFORMATION" in section III of the data record.

The **measurement error estimate** of a specific observation in this data record, is stated as a multiple of the standard deviation derived as above, and entered in a column immediately to the right of the reported variable. In order to distinguish it from an additional decimal digit, the measurement error estimate is recorded alphabetically, (i.e., $1\sigma = A$, $2\sigma = B$, etc.; in this data record "A" is suppressed).

An option is provided with respect to the measurement of the salinity variable. If observed to three decimal digits, the last digit takes the place of the measurement error estimate.

In the past, a number of methods for both manual and machine interpolation have been developed. Studies and comparisons of the several methods have shown that no single method is universally acceptable. The manual methods are the most elaborate and flexible, but often require subjective decisions. In machine interpolation, all the present methods fail to yield acceptable results under some circumstances. Hence, it is considered necessary to qualify interpolated values by stating an "**interpolation error estimate**" derived from the particular interpolation formula used. There are two purposes in stating the error estimates; **first**, to give an indication of the quality of the interpolated data; **second**, to allow the oceanographer to redesign his observational procedures in order to reduce interpolation errors in future observations.

The interpolation scheme chosen for the OCEANS II program consists of a combination of two 3-point interpolations using the Lagrangian interpolation polynomial, as recommended by Rattray (1962). A parabola is fitted through three values of a given variable (T, S, O_2) considered as a function of depth. The two interpolation parabolas require a total of four points (observed depths). The middle points are common to both parabolas. The average of the two values obtained from the parabolas at standard depth is taken as the interpolated value, and a function of their difference as an estimate of the interpolation error.

This function combined with the "**measurement error estimate**" comprises the "**combined measurement and interpolation error estimate**". It is expressed as a multiple of the standard deviation of measurement (σ) under normal routine field conditions by:

CANADIAN OCEANOGRAPHIC DATA CENTRE

1 IDENT. CODE		2 LATITUDE (N=+)		3 LONGITUDE (W=+)		5 DATE		6 TIME		7 DEPTH		9 NO. DEPTHS OBS'D.		VESSEL															
COUNTRY INST.		DEG. MIN. 1/10		DEG. MIN. 1/10		YEAR MONTH DAY		HOURS G.M.T. 1/10		TO BOTTOM				ENTERED BY															
1 8						19 20 21 22 23 24 25 26 27		28 29 30 31		34 35																			
10 WATER		11 WAVES I		12 WAVES II		13 WIND		14 BAROMETER		15 AIR TEMP.		16 WET BULB		17 W.W. CODE		18 CLOUD		19 MT. TYPE		20 HOURS AFTER H.W.		21 UNASSIGNED		22 CRUISE REFERENCE NUMBER		23 CONSEC. NUMBER		24 OBS. VAL.	
COLOUR TRANS.		Dw Dw Pw Hw		Dw Dw Pw Hw		DIR. 10		10 OXYGEN		13 PO ₄ - P		14 TOTAL - P		15 NO ₂ - N		16 NO ₃ - N		17 SIO ₃ - SI		18 P.H. ₂									
36 37 38 39		40 41 42 43		44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80																									

6 TIME		7 DEPTH OF SAMPLE		8 TEMPERATURE		9 SALINITY		10 OXYGEN		13 PO ₄ - P		14 TOTAL - P		15 NO ₂ - N		16 NO ₃ - N		17 SIO ₃ - SI		18 P.H. ₂	
HOURS G.M.T. 1/10		e		↑		↓		d/e		e		↓		↓		↓		↓		↓	
1																					
2																					
3																					
4																					
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20																					

$$\frac{\sigma_i}{\sigma} = \left\{ \frac{(\Delta V_i)^2}{\sigma^2} + \sum_{n=j-2}^{j+1} (\gamma_n)^2 \left(\frac{\sigma_n}{\sigma} \right)^2 \right\}^{1/2}, \text{ where}$$

σ = Standard deviation of the combined error estimates at standard oceanographic depth,

ΔV_i = the interpolation error estimate of variable "V" at standard oceanographic depth = $1/3 (\bar{V}_{i_1} - V_{i_2})$

γ = Interpolation polynomial coefficient.

Z_j = Observed depth.

Z_i = Standard oceanographic depth, such that: $Z_{j-2} < Z_{j-1} < Z_i < Z_j < Z_{j+1}$

The integral part of the fraction $\frac{\sigma_i}{\sigma}$, if ≥ 2 , is reported in this Data Record following the interpolated variable. It represents the **combined measurement and interpolation error estimate**. In order to distinguish it from an additional decimal digit, it is recorded alphabetically (e.g.: 2 as "B", 3 as "C", etc.).

With respect to the interpolated value of the salinity variable if reported to three decimal digits, the **interpolation error estimate** is given only when $\frac{\sigma_i}{\sigma} \geq 2$ (the salinity is then recorded to two decimal places). If less than 2, the mean obtained from the two interpolation parabolas is reported to three decimal places.

EXPLANATION OF DATA RECORD HEADINGS

MASTER HEADINGS

(1) C-REF-NO	(6) YR	(11) DEPTH	(16) WAVES 1	(21) AIR T	(26) VIS
(2) CONS. NO	(7) MONTH	(12) MXSAMPD	(17) WAVES 2	(22) WET B	(27) STN
(3) LAT	(8) DAY	(13) NO. DPTH	(18) WND-DIR	(23) ww-CODE	
(4) LON	(9) HR	(14) W-COLOR	(19) WND-FCE	(24) CLD-TPE	
(5) MARSD SQ	(10) C/I	(15) W-TRNSP	(20) BARO	(25) CLD-AMT	(28) HW

(1) CRUISE REFERENCE NUMBER:

Assigned by the Institute. Commences with 001 at the beginning of each year (effective Jan. 1, 1963). Prior to that date the CRN was a number designated by CODC.

(2) CONSECUTIVE NUMBER:

Indicates the chronological order in which the stations were occupied.

(3) LATITUDE:

Indicate the position of the platform at the time of observation.

(4) LONGITUDE:

(5) MARSDEN SQUARE: Designates the geographic area code of the observation (see Marsden square chart).

(6) YEAR:

(7) MONTH:

(8) DAY:

(9) HOUR:

The time (Greenwich Mean Time) at which the surface environmental data were recorded. It is reported to tenths of hours (Table 1).
If an "X" precedes the value for HOUR, (prior to Jan. 1, 1963) it indicates that the reported time is doubtful.

(10) COUNTRY/
INSTITUTE:

The International Geophysical Year (IGY) Country Code/Institute Code - see Table 11.

(11) DEPTH:

The sounding reported in metres. If corrected, this is stated in the "GENERAL INFORMATION" chapter of section III. Charted depths are preceded by the letter "C".

(12) MAXIMUM

SAMPLING DEPTH: A code to indicate the deepest sampling depth (used for high speed sorting).

00 m - 50 m = 00

51 m - 150 m = 01

151 m - 250 m = 02

etc.

- (13) NUMBER OF DEPTHS: The number of levels observed (this is entered to initiate a computer safety check, guarding against the loss of punch-cards).
- (14) WATER COLOUR: A code based on the percentage of yellow (see table 2 and Note under FIELD "15" below).
- (15) WATER TRANSPARENCY: The depth in metres at which a Secchi disc (white disc, 30 cm. in diameter) just disappears from view, or the optical density expressed in percentage;
- NOTE: The "GENERAL INFORMATION" chapter in section III of the data record will state which method was used.
- (16) WAVES 1
($d_w d_w P_w H_w$ -code): The direction, period and height of the **wind-propagated** wave system. (See Tables 3, 4 and 5). Ref: World Meteorological Organization Codes 0885, 3155, 1555.
- (17) WAVES 2
($d_w d_w P_w H_w$ -code): The direction, period and height of the predominant **non-wind-propagated** wave system. (See Tables 3, 4 and 5). Ref: World Meteorological Organization Codes 0885, 3155, 1555.
- (18) WIND DIRECTION: The true direction to the nearest 10 degrees from which the wind is blowing (wind direction 990 means:—wind variable or direction unknown).
- (19) WIND FORCE
(WND-FCE): Beaufort notation (See Table 6).
- WIND SPEED
(WND-SPD): Anemometer reading reported in metres per second. Instrument height reported in "GENERAL INFORMATION" chapter of section III.
- (20) BAROMETER: The barometric pressure reported in millibars: the "GENERAL INFORMATION" chapter in Section III of the data record will state the type of instrument used.
- (21) AIR TEMPERATURE: In degrees Celsius.
- (22) WET BULB: In degrees Celsius.
- (23) ww CODE: Present Weather Code (See Table 7). Ref: WMO Code 4677
- (24) CLOUD TYPE: The type of predominating clouds (See Table 8). Ref: WMO Code 0500.
- (25) CLOUD AMOUNT: The sky coverage in eighths (See Table 9) Ref: WMO Code 2700
- (26) VISIBILITY: Visibility at the surface (See Table 10). Ref: WMO Code 4300.
- (27) STATION: A station reference number, assigned by the institute prior to, or during the survey.
- (28) HOURS AFTER HIGH WATER: Indicates the state of the tide for nearshore observations.

OBSERVED DATA HEADINGS

(1) GMT	(2) DEPTH	(3) TEMP	(4) SAL	(5) OXYGEN	(6) SGMT
(7) SOUND	(8) PO_4	(9) -P-	(10) NO_2	(11) NO_3	(12) SiO_2
				(13) pH.	

NOTE: Headings (1) to (7) will always be present. Headings (8) to (13) appear only when one or more additional chemical entries were made.

(1) G.M.T.: The Greenwich Mean Time of (in-situ) thermometer inversion and sea water sample collection.

When a multiple cast was initiated prior to and continued after midnight, the times indicated are uninterrupted by the change of day and appear beyond 24.0 hours. This will be accompanied by a statement: "MULTIPLE CAST CONTINUED NEXT DAY", which is printed following the last level of observed values.

(2) DEPTH: The depth in metres at the reversal time of deepest cast.

(3) TEMPERATURE: Temperatures from deepsea reversing thermometers, read to 0.01° C. Surface temperature measurement procedures are described in the chapter "OBSERVATION PROCEDURES" of section I, and/or the "GENERAL INFORMATION" chapter of section III. An alphabetical character following the temperature value represents the measurement error estimate referred to in the INTRODUCTION to this section.

(4) SALINITY: Salinity as defined by: $S = 0.03 + 1.805 C1\%$, reported in:
 a. 1/100 parts per 1000, or
 b. 1/1000 parts per 1000.

In case a: an alphabetical character following the value is the measurement error estimate as referred to under (3).

In case b: no error estimate indication is provided for, but an additional decimal digit takes its place.

(5) OXYGEN: The concentration of dissolved oxygen expressed in millilitres per litre to 2 decimal places. An alphabetical character following the value is the measurement error estimate as referred to under (3).

(6) SIGMA-T: The specific gravity anomaly as defined by: $(\text{Specific gravity} - 1) \times 10^3$ (e.g., σ_t reported as 2456, reads 24.56, and corresponds to a specific gravity of 1.02456).

(7) SOUND: The sound velocity is reported in m/sec. to 1 decimal place (e.g., 1437.9 m/sec.). The computation is carried out using Wilson's formula (1960), expressed in terms of temperature, salinity and total pressure.

(8) PO ₄	Phosphate-Phosphorus reported to hundredths of microgram-atoms per litre.
(9) -P-	Total Phosphorus reported to hundredths of microgram-atoms per litre.
(10) NO ₂	Nitrite-Nitrogen reported to hundredths of microgram-atoms per litre — No dissolved nitrogen included —
(11) NO ₃	Nitrate-Nitrogen reported to tenths of microgram-atoms per litre.
(12) SiO ₂	Silicate-Silicon reported in whole microgram-atoms per litre.
(13) pH	The pH value.

NOTE: "TRC" (trace) is reported when a chemical entry has a value less than the standard deviation of measurement for that particular variable.

INTERPOLATED DATA HEADINGS

(1) DEPTH	(2) TEMP	(3) SAL	(4) OXYGEN	(5) SGMT	(6) SOUND
(7) DELTA-D	(8) POT-EN	(9) SVA.			

- (1) DEPTH: Standard Oceanographic Depth in whole metres, as well as additional depths: 125, 175, 225, 3500, 4500, 5500, 6500, 7500, 8500, 9500.
- (2) TEMPERATURE: Interpolated value at standard depth, followed by the combined measurement and interpolation error estimate (see "INTRODUCTION" to section II of the data record).
- (3) SALINITY:
- A. The reported salinity values are measured to three decimal places.
 - (i) the interpolation error estimate is less than twice the standard deviation of measurement
 - the interpolated value is reported to three decimal places (e.g., 30.139).
 - (ii) the interpolation error estimate is equal to or greater than twice the standard deviation of measurement.
 - the interpolated value is reported to two decimal places, and followed by the interpolation error estimate (e.g., 29.23 C).
 - B. The reported salinity values are measured to two decimal places and followed by the measurement error estimate.
 - the interpolated value is reported to two decimal places, and followed by the combined measurement and interpolation error estimate (e.g., 30.59 B).
- (4) OXYGEN: Interpolated value at standard depth, followed by the combined measurement and interpolation error estimate (see "Introduction" to section II of the data record).

- (5) SIGMA-T: Computed from temperature and salinity values at standard oceanographic depth.
- (6) SOUND VELOCITY: Computed from temperature, salinity and total pressure values at standard oceanographic depth, using Wilson's formula (1960).
- (7) DELTA-D: The geo-potential anomaly as defined by:
- $$\Delta D = \int_0^p \delta dp$$
- ΔD is expressed in dynamic metres (10^5 ergs/gram) and recorded to three decimal places (e.g., 2.345 dyn. metres).
- (8) POTENTIAL ENERGY ANOMALY: The Potential energy anomaly χ as defined by:
- $$\chi = \frac{1}{g} \int_0^p \rho \delta dp = \int_0^z \rho \delta dz$$
- χ is expressed in units of 10^8 ergs/cm² and recorded to two decimal places (e.g., 116.44).
- (9) SPECIFIC VOLUME ANOMALY: The specific volume anomaly as defined by:
- $$\delta = \alpha - \alpha_{35.0.P}$$
- δ is expressed in ml/gr, and conventionally reported as $10^5 \delta$, to one decimal place (i.e., δ reported as 1234, reads 123.4, and corresponds to a specific volume anomaly of 0.001234 ml/gr.).

SPECIAL CHARACTERS

*(Asterisk): this character may occur in the interpolated portion of the data record. It is printed at the extreme left hand side of the page, when three or more standard depth levels fall within any one observed depth interval. The third, and all consequent levels are preceded by the asterisk to indicate that more than two machine interpolations were carried out, utilizing the same set of interpolation parabolas. The asterisk will also appear when the last standard depth is an extrapolation and there are at least two interpolations between the last two observed depths.

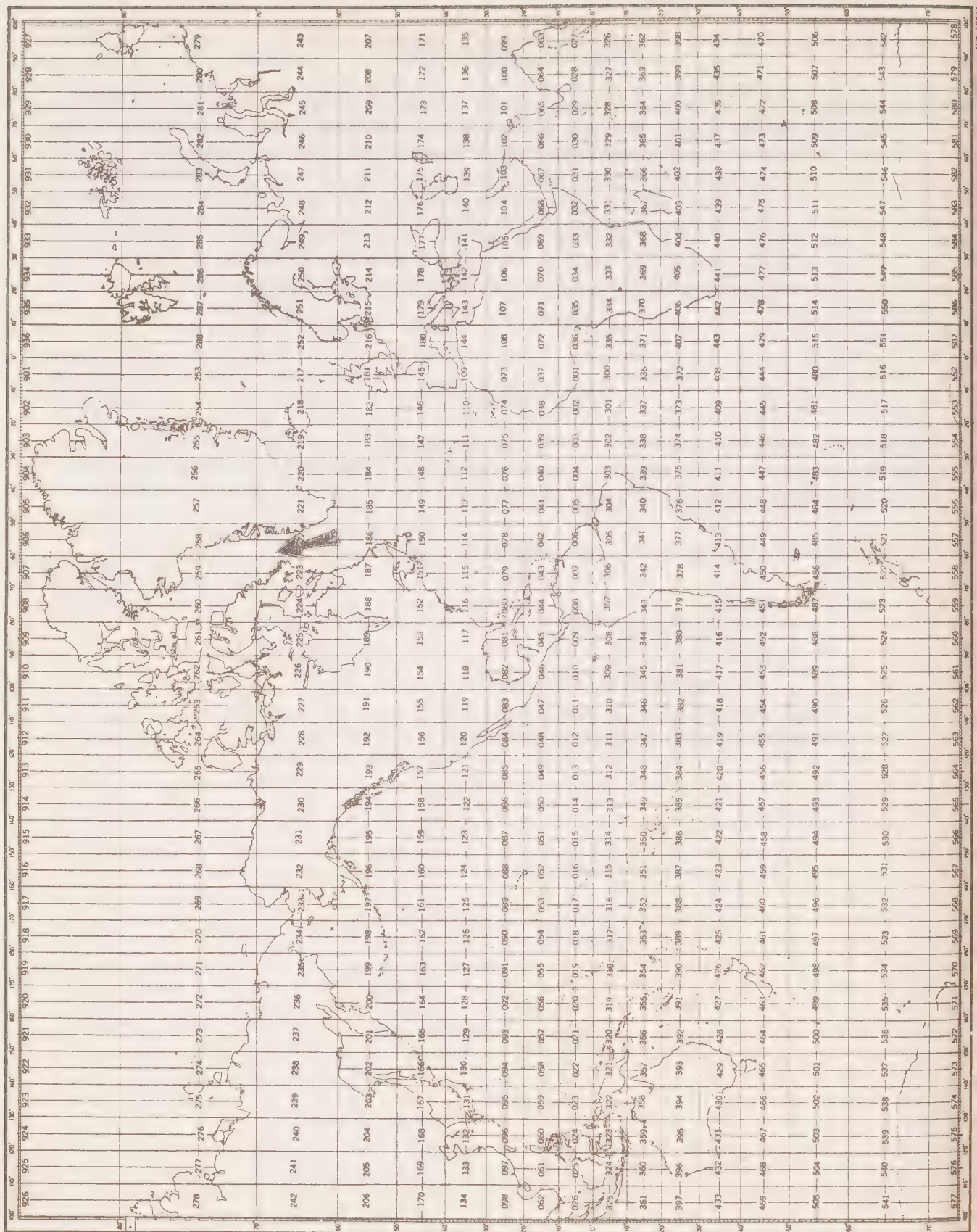
DOUBTFUL DATA

The doubtful data code formerly used in coding historical data and superseded by the measurement error estimate has been preserved. It appears in the "Observed Data" area, as a single digit to the left of GMT.

The doubtful data are reported according to the following code:

- 1 Depth
- 2 Temperature
- 3 Salinity
- 4 any combination of the above
- 5 Oxygen

Note: 1, 2, 3, and 4 take precedence over 5



MARSDEN SQUARE CHART

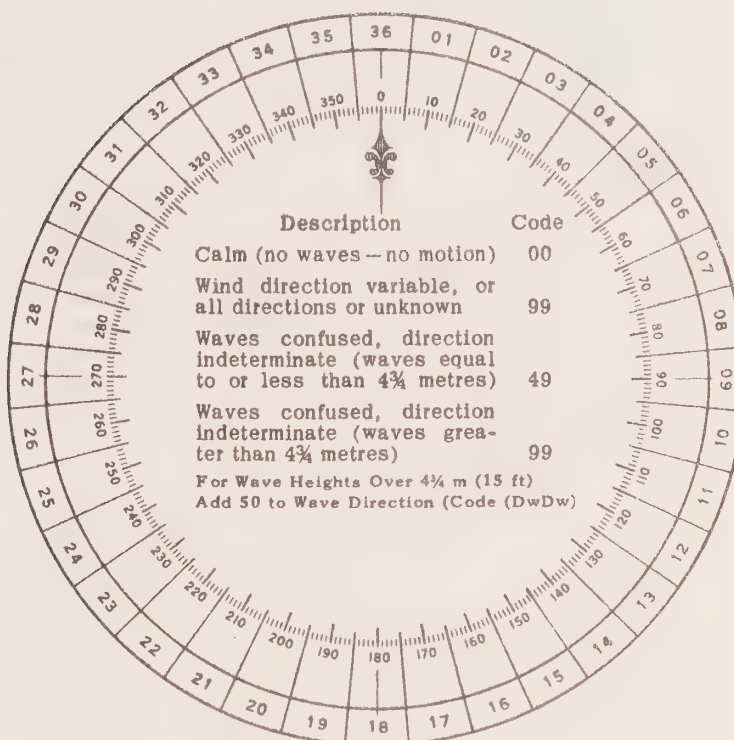
Table 1
CONVERSION
MINUTES TO $\frac{1}{10}$ HRS.

Minutes	Tenths Hrs.
00-03	0
04-08	1
09-15	2
16-20	3
21-27	4
28-32	5
33-39	6
40-44	7
45-51	8
52-56	9
57-59	0 (next HR.)

Table 2
WATER COLOR CODE
Based on Percentage Yellow

Code:	Description
00	Deep Blue
10	Blue
20	Greenish Blue
30	Bluish Green
40	Green
50	Light Green
60	Yellowish Green
70	Yellow Green
80	Green Yellow
90	Greenish Yellow
99	Yellow

Table 3. DIRECTION CODE (dd)



NOTE:

Always use the true direction from which the wind is blowing, or the direction from which Waves I (sea), or Waves II (swell) come.

Table 4. PERIOD OF THE WAVES (P_w)
(Measure to the Nearest Second)

Code:	Period in Seconds:	Code:	Period in Seconds:
2	5 sec. or less	8	16 or 17 sec.
3	6 or 7 sec.	9	18 or 19 sec.
4	8 or 9 sec.	0	20 or 21 sec.
5	10 or 11 sec.	1	Over 21 sec.
6	12 or 13 sec.	X	Calm, or period not determined
7	14 or 15 sec.		

Table 5. HEIGHT OF THE WAVES (H_w)

- The average value of the wave height (vertical distance between trough and crest) is reported, as obtained from the larger well formed waves of the wave system being observed.
- Each code figure provides for reporting a range of heights. For example: 1 = $\frac{1}{4}$ m (1 ft) to $\frac{3}{4}$ m ($2\frac{1}{2}$ ft); 5 = $2\frac{1}{4}$ m (7 ft) to $2\frac{3}{4}$ m (9 ft); 9 = $4\frac{1}{4}$ m ($13\frac{1}{2}$ ft) to $4\frac{3}{4}$ m (15 ft), etc.
- If a wave height comes exactly midway between the heights corresponding to two code figures, the lower code figure is reported; e.g. a height of $2\frac{3}{4}$ m is reported by code figure 5.

Code			Code	
0	Less than ¼ m (1 ft)		0	5 m (16 ft)
1	½ m (1½ ft)		1	5½ m (17½ ft)
2	1 m (3 ft)		2	6 m (19 ft)
3	1½ m (5 ft)	Add	3	6½ m (21 ft)
4	2 m (6½ ft)	50	4	7 m (22½ ft)
5	2½ m (8 ft)	to	5	7½ m (24 ft)
6	3 m (9½ ft)	Dw Dw	6	8 m (25½ ft)
7	3½ m (11 ft)		7	8½ m (27 ft)
8	4 m (13 ft)		8	9 m (29 ft)
9	4½ m (14 ft)		9	9½ m (30½ ft) or more
x	Height not determined			

Table 6. WIND FORCE CODE

The Beaufort force of the wind is estimated from the appearance of the sea surface, according to the table below. This table is only intended as a guide to show roughly what may be expected on the open sea, remote from land. Factors which must be taken into account are the "lag" effect between the wind increasing and the sea getting up; and the influence of "fetch", depth, swell, heavy rain and tide effect on the appearance of the sea. Estimation of the wind force by this method becomes unreliable in shallow water or when close inshore, owing to the tidal effect and the shelter provided by the land.

Code	Appearance of sea if fetch and duration of the blow have been sufficient to develop the sea fully	Description
00	Sea like a mirror	Calm
01	Ripples with the appearance of scales are formed, but without foam crests.	Light Air
02	Small wavelets; crests have a glassy appearance and do not break.	Light Breeze
03	Large wavelets; crests begin to break; foam of glassy appearance; perhaps scattered white horses.	Gentle Breeze
04	Small waves, becoming longer; fairly frequent white horses.	Moderate breeze
05	Moderate waves; many white horses are formed (chance of some spray)	Fresh Breeze
06	Large waves; white foam crests everywhere (probably some spray)	Strong Breeze
07	Sea heaps up and white foam from breaking waves begins to be blown in streaks along the direction of the wind.	Near Gale
08	Moderately high waves; edges of crests begin to break into the spindrift; foam is blown in well-marked streaks along the direction of the wind.	Gale
09	High waves; dense streaks of foam along wind; crests begin to topple, tumble and roll over; spray may affect visibility.	Strong Gale
10	Very high waves with long overhanging crests; foam in great patches blown in dense white streaks along wind; sea surface takes a white appearance; tumbling becomes heavy and shock-like; visibility affected.	Storm
11	Exceptionally high waves (medium sized ships may be lost to view behind waves); sea covered with long white patches of foam lying along the wind; everywhere edges of crests are blown into froth; visibility affected.	Violent Storm
12	Air is filled with foam and spray; sea completely white with driving spray; visibility seriously affected.	Hurricane

Table 7. PRESENT WEATHER

W.W. CODE

NO PRECIPITATION ON STATION AT TIME OF OBSERVATION

Code figure ww			
No meteors except photometers	00	Cloud development not observed or not observable	characteristic change of the state of sky during the past hour
	01	Clouds generally dissolving or becoming less developed	
	02	State of sky on the whole unchanged	
Haze, dust, sand or smoke	03	Clouds generally forming or developing	
	04	Visibility reduced by smoke, e.g. veldt or forest fires, industrial smoke or volcanic ashes	
	05	Haze	
	06	Widespread dust in suspension in the air, not raised by wind at or near the station at the time of observation	
	07	Dust or sand raised by wind at or near the station at the time of observation, but no well developed dust whirl(s) or sand whirl(s), and no duststorm or sandstorm seen	
	08	Well developed dust whirl(s) or sand whirl(s) seen at or near the station during the preceding hour or at the time of observation, but no dustorm or sandstorm	
	09	Duststorm or sandstorm within sight at the time of observation, or at the station during the preceding hour	
	10	Mist	
	11	Patches of	shallow fog or ice fog at the station, whether on land or sea, not deeper than about 2 metres on land or 10 metres at sea
	12	More of less continuous	
	13	Lightning visible, no thunder heard	
	14	Precipitation within sight, not reaching the ground or the surface of the sea	
	15	Precipitation within sight, reaching the ground or the surface of the sea, but distant (i.e. estimated to be more than 5 km) from the station	
	16	Precipitation within sight, reaching the ground or the surface of the sea, near to, but not at the station	
	17	Thunderstorm, but no precepitation at the time of observation	
	18	Squalls	at or within sight of the station during the preceding hour or at the time of observation
	19	Funnel clouds	
ww = 20 - 29			
	20	Precipitation, fog, ice fog or thunderstorm at the station during the preceding hour but not at the time of observation	not falling as shower(s)
	21	Drizzle (not freezing) or snow grains	
	22	Rain (not freezing)	
	23	Snow	
	24	Rain and snow or ice pellets, type (a)	
	25	Freezing drizzle or freezing rain	
	26	Shower(s) of rain	
	27	Shower(s) of snow, or of rain and snow	
	28	Shower(s) of hail, or of rain and hail	
	29	Fog or ice fog	
ww = 30 - 39			
	30	Thunderstorm (with or without precipitation)	
	31	Duststorm, sandstorm, drifting or blowing snow	
	32	Slight or moderate duststorm or sandstorm	- has decreased during the preceding hour - no appreciable change during the preceding hour - has begun or has increased during the preceding hour
	33	Severe duststorm or sandstorm	
	34		- has decreased during the preceding hour - no appreciable change during the preceding hour - has begun or has increased during the preceding hour
	35		
	36	Slight or moderate blowing snow	generally low (below eye level)
	37	Heavy drifting snow	
	38	Slight or moderate blowing snow	generally high (above eye level)
	39	Heavy blowing snow	
ww = 40 - 49			
	40	Fog or ice fog at the time of observation	
	41	Fog or ice fog at a distance at the time of observation, but not at the station during the preceding hour, the fog or ice fog extending to a level above that of the observer	
	42	Fog or ice fog in patches	
	43	Fog or ice fog, sky visible	has become thinner during the preceding hour
	44	Fog or ice fog, sky invisible	
	45	Fog or ice fog, sky visible	no appreciable change during the preceding hour
	46	Fog or ice fog, sky invisible	
	47	Fog or ice fog, sky visible	has begun or has become thicker during the preceding hour
	48	Fog or ice fog, sky invisible	
	49	Fog, depositing rime, sky visible	
		Fog, depositing rime, sky invisible	

NO PRECIPITATION ON STATION AT TIME OF OBSERVATION

PRECIPITATION ON STATION AT TIME OF OBSERVATION

ww = 50 - 59 Drizzle

- | | | | |
|----|--|---|--------------------------------------|
| 50 | Drizzle, not freezing, intermittent | { | slight at time of observation |
| 51 | Drizzle, not freezing, continuous | | |
| 52 | Drizzle, not freezing, intermittent | { | moderate at time of observation |
| 53 | Drizzle, not freezing, continuous | | |
| 54 | Drizzle, not freezing, intermittent | { | heavy (dense) at time of observation |
| 55 | Drizzle, not freezing, continuous | | |
| 56 | Drizzle, freezing, slight | | |
| 57 | Drizzle, freezing, moderate or heavy (dense) | | |
| 58 | Drizzle and rain, slight | | |
| 59 | Drizzle and rain, moderate or heavy | | |

ww = 60 - 69 Rain

- | | | | |
|----|---|---|---------------------------------|
| 60 | Rain, not freezing, intermittent | { | slight at time of observation |
| 61 | Rain, not freezing, continuous | | |
| 62 | Rain, not freezing, intermittent | { | moderate at time of observation |
| 63 | Rain, not freezing, continuous | | |
| 64 | Rain, not freezing, intermittent | { | heavy at time of observation |
| 65 | Rain, not freezing, continuous | | |
| 66 | Rain, freezing, slight | | |
| 67 | Rain, freezing, moderate or heavy | | |
| 68 | Rain or drizzle and snow, slight | | |
| 69 | Rain or drizzle and snow, moderate or heavy | | |

70 - 79 Solid precipitation not in showers

- | | | | |
|----|---|---|---------------------------------|
| ww | | | |
| 70 | Intermittent fall of snow flakes | { | slight at time of observation |
| 71 | Continuous fall of snow flakes | | |
| 72 | Intermittent fall of snow flakes | { | moderate at time of observation |
| 73 | Continuous fall of snow flakes | | |
| 74 | Intermittent fall of snow flakes | { | heavy at time of observation |
| 75 | Continuous fall of snow flakes | | |
| 76 | Ice prisms (with or without fog) | | |
| 77 | Snow grains (with or without fog) | | |
| 78 | Isolated starlike snow crystals (with or without fog) | | |
| 79 | Ice pellets, type (a) | | |

ww = 80 - 99 Showery precipitation, or precipitation with current or recent thunderstorm

- | | | | |
|----|--|---|---|
| 80 | Rain shower(s), slight | | |
| 81 | Rain shower(s), moderate or heavy | | |
| 82 | Rain shower(s), violent | | |
| 83 | Shower(s) of rain and snow mixed, slight | | |
| 84 | Shower(s) of rain and snow mixed, moderate or heavy | | |
| 85 | Snow shower(s), slight | | |
| 86 | Snow shower(s), moderate or heavy | | |
| 87 | Shower(s) of snow pellets or ice pellets, type (b), with or without rain | { | - slight |
| 88 | or rain and snow mixed | | |
| 89 | Shower(s) of hail, with or without rain or rain and snow mixed, not associated with thunder | { | - moderate or heavy |
| 90 | | | |
| 91 | Slight rain at time of observation | { | thunderstorm during the preceding hour but not at time of observation |
| 92 | Moderate or heavy rain at time of observation | | |
| 93 | Slight snow, or rain and snow mixed or hail at time of observation | { | thunderstorm at time of observation |
| 94 | Moderate or heavy snow, or rain and snow mixed or hail at time of observation | | |
| 95 | Thunderstorm, slight or moderate, without hail, but with rain and/or snow at time of observation | { | |
| 96 | Thunderstorm, slight or moderate, with hail at time of observation | | |
| 97 | Thunderstorm, heavy, without hail, but with rain and/or snow at time of observation | { | |
| 98 | Thunderstorm, combined with duststorm or sandstorm at time of observation | | |
| 99 | Thunderstorm, heavy, with hail at time of observation | | |

PRECIPITATION ON STATION AT TIME OF OBSERVATION

Table 8. CLOUD TYPE CODE

Code	Cloud Type	Code	Cloud Type
0	Cirrus Ci	5	Nimbostratus Ns
1	Cirrocumulus Cc	6	Stratocumulus Sc
2	Cirrostratus Cs	7	Stratus St
3	Alto cumulus Ac	8	Cumulus Cu
4	Altostratus As	9	Cumulonimbus Cb
X	Cloud not visible owing to darkness, fog, duststorm, sandstorm, or other analogous phenomena		

Table 9. CLOUD AMOUNT CODE

Code	Cloud Cover	Code	Cloud Cover
0	0	6	6 oktas
1	1 okta or less, but not zero	7	7 oktas or more, but not 8 oktas
2	2 oktas	8	8 oktas
3	3 oktas	9	Sky obscured, or cloud amount cannot be estimated
4	4 oktas		
5	5 oktas		

Note: 1 okta = $\frac{1}{8}$ of the sky covered

Table 10. VISIBILITY

Code	Estimate of hor. Visibility
0	Less than 50 metres (less than 55 yards)
1	50-200 metres (approx. 55-220 yards)
2	200-500 metres (approx. 220-550 yards)
3	500-1,000 metres (approx. 550 yards- $\frac{1}{2}$ n.m.)
4	1-2 km (approx. $\frac{3}{4}$ -1 n.m.)
5	2-4 km (approx. 1-2 n.m.)
6	4-10 km (approx. 2-6 n.m.)
7	10-20 km (approx. 6-12 n.m.)
8	20-50 km (approx. 12-30 n.m.)
9	50 km or more (30 n.m. or more)

Note: n.m. = nautical mile

Table 11CCO Institute Code

01. Atlantic Oceanographic Group.
02. Pacific Oceanographic Group.
03. Biological Station, St. Andrews, N.B.
04. Arctic Biological Station, St. Anne de Bellevue, P.Q.
05. Biological Station, St. John's, Nfld.
06. Station de Biologie Marine, Grande Riviere, P.Q.
07. Canadian Hydrographic Service.
08. Naval Research Establishment, Dartmouth, N.S.
09. Pacific Naval Laboratory, Esquimalt, B.C.
10. Bedford Institute of Oceanography.
11. Polar Continental Shelf Project.
12. Great Lakes Institute.
13. Inland Region, Oceanographic Research, Ottawa.
14. Institute of Oceanography, Dalhousie University.

SECTION III

Serial oceanographic data

GENERAL INFORMATION

<u>Institute:</u>	Bedford Institute of Oceanography
<u>Observation Platform:</u>	CCGS "Labrador"
<u>Vessel's cruising speed:</u>	10 Knots
<u>Total number of stations occupied:</u>	81
<u>Anemometer Height above sea level:</u>	26 metres
<u>Barometer readings:</u>	Aneroid Barometer (corrected)
<u>Air temperature:</u>	Fixed Thermometer
<u>Surface sea water temperature:</u>	Tow. Frame

The following Standard Deviations were used to express both measurement and interpolation error estimates:

Temperature	0.02
Salinity	0.005
Oxygen	0.01

C-REF-NO 362 YR 1962 DEPTH 119 WAVES 1 04X4 AIR T -06.1 VIS 8
 CONS. NO 001 MONTH 9 MXSAMPD 01 WAVES 2 0346 WET B STN 001
 LAT 78-005N DAY 26 NO.DPTH 8 WND-DIR 040 WW-CODE 02
 LON 73-000W HR 11.1 W-COLOR WND-SPD 13 CLD-TPE 4
 MARSD SQ 260 C/I 1810 W-TRNSP BARO 1006. CLD-AMT 1 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
111	0000	004	32230		2588	14473
111	0010	0043	32230		2587	14476
111	0020	0045	32233		2588	14478
111	0030	0070	32304		2592	14492
111	0050	0136	32905		2636	14534
111	0075	0020	33295		2674	14491
111	0100	-0080	33602		2703	14453
111	0110	-0092	33658		2708	14450

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0040	32230		2588	14473	0000	00000	2133
0010	0043	32230		2587	14476	0021	00001	2134
0020	0045	32233		2588	14478	0043	00004	2133
0030	0070	32304		2592	14492	0064	00010	2091
0050	0136	32905		2636	14534	0102	00025	1672
0075	0020	33295		2674	14491	0140	00048	1309
0100	-0080	33602		2703	14453	0169	00074	1030

C-REF-NO 362	YR 1962	DEPTH	567	WAVES 1 36X4	AIR T -06.1	VIS 8
CONS. NO 002	MONTH 9	MXSAMPD	06	WAVES 2 3646	WET 8	STN 002
LAT 78-005N	DAY 26	NO.DPTH	13	WND-DIR 360	WW-CODE 02	
LON 74-000W	HR 14.4	W-COLOR		WND-SPD 09	CLD-TPE 4	
MARSD SQ 260	C/I 1810	W-TRNSP		BARO 1011.	CLD-AMT 1	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
144	0000	000	32315		2596	14456
144	0009	-0016	32270		2593	14449
144	0018	-0013	32283		2594	14452
144	0027	0074	32629		2618	14498
144	0045	0151	32998		2643	14541
144	0073	-0020	33361		2682	14473
144	0097		33656			
144	0145	-0128	33807		2722	14441
144	0193		33924			
144	0242	-0078	34070		2741	14484
144	0386	-0063	34364		2764	14519
144	0482	-0033	34433		2769	14550
144	0555	-0029				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0000	32315		2596	14456	0000	00000	2050
0010	-0018	32262		2593	14448	0021	00001	2083
0020	0004 B	3235 C		2599	14461	0041	00004	2024
0030	0096	3271 B		2623	14510	0061	00009	1797
0050	0131 E	33073		2650	14534	0094	00023	1541
0075	-0027	33389		2684	14470	0129	00044	1215
0100	-0096 G	33675		2710	14447	0157	00069	0968
0125	-0128 F	3378 E		2720	14437	0180	00095	0874
0150	-0128	33819		2723	14442	0201	00126	0844
0175	-0123 E	33881		2727	14449	0222	00160	0797
0200	-0111 E	33945		2732	14460	0242	00198	0751
0225	-0094 C	34019		2738	14473	0260	00238	0701
0250	-0077	34092		2743	14486	0277	00279	0651
0300	-0070 B	34214		2753	14499	0308	00365	0560
0400	-0058	3430 I		2759	14523	0361	00556	0501
0500	-0037 B							

C-REF-NO 362 YR 1962 DEPTH 677 WAVES 1 02X1 AIR T -06.7 VIS 9
 CONS. NO 003 MONTH 9 MXSAMPD 06 WAVES 2 0946 WET B STN 003
 LAT 78-000N DAY 26 NO.DPTH 15 WND-DIR 020 WW-CODE 02
 LON 75-000W HR 18.0 W-COLOR WND-SPD 09 CLD-TPE 1
 MARSD SQ 260 C/I 1810 W-TRNSP BARO 1006. CLD-AMT 2 HW

O B S E R V E D

	GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
	180	0000	-013	31160		2508	14379
	180	0010	-0148	31194		2511	14372
	180	0020	-0107	31421		2528	14397
	180	0030	0061	32274		2590	14488
	180	0050	0010	32957		2648	14477
	180	0075	0051	33235		2668	14504
	180	0100	-0070	33543		2698	14457
	180	0150	-0096	33731		2714	14456
	180	0188	-0095	33919		2730	14465
	180	0236		34053			
	180	0285	-0065	34197		2751	14499
2	180	0383	-0045	34353		2763	14527
	180	0481	-0033	34419		2767	14550
	180	0580	-0032	34442		2769	14567
	180	0630	-0026	34477		2772	14578

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EV	SVA
0000	-0130	31160		2508	14379	0000	00000	2895
0010	-0148	31194		2511	14372	0029	00001	2864
0020	-0107	31421		2528	14397	0057	00006	2698
0030	0061	32274		2590	14488	0081	00012	2109
0050	0010	32957		2648	14477	0118	00026	1562
0075	0051	33235		2668	14504	0155	00050	1371
0100	-0070	33543		2698	14457	0186	00077	1079
0125	-0103 E	3367 E		2710	14447	0212	00107	0969
0150	-0096	33731		2714	14456	0236	00140	0923
0175	-0097	33857		2725	14461	0258	00177	0826
0200	-0092	33958		2733	14469	0277	00215	0749
0225	-0085	34027		2738	14477	0296	00255	0698
0250	-0078	34096		2743	14486	0313	00296	0648
0300	-0061	34229		2753	14504	0343	00381	0552
0400	-0042	34369		2764	14531	0394	00561	0453
0500	-0033	34423		2768	14553	0438	00763	0416
0600	-0028	34462		2771	14572	0478	00992	0387

C-REF-NO 362	YR 1962	DEPTH 174	WAVES 1 04X4	AIR T -03.9	VIS 8
CONS. NO 004	MONTH 9	MXSAMPD 01	WAVES 2 0346	WET B	STN 004
LAT 77-300N	DAY 26	NO.DPTH 8	WND-DIR 040	WW-CODE 02	
LON 73-000W	HR 23.2	W-COLOR	WND-SPD 14	CLD-TPE	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 1003.	CLD-AMT 0	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
232	0000	002	32143		2582	14462
232	0010	0032	32147		2581	14470
232	0020	-0036	32271		2594	14442
232	0030	0109	32488		2605	14513
232	0049	0110	32931		2640	14522
232	0074	-0009	33391		2683	14479
232	0099	-0044	33528		2696	14469
232	0148	-0104	33784		2719	14452

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0020	32143		2582	14462	0000	00000	2190
0010	0032	32147		2581	14470	0022	00001	2192
0020	-0036	32271		2594	14442	0043	00004	2068
0030	0109	32488		2605	14513	0064	00010	1972
0050	0106	32954		2642	14521	0100	00024	1616
0075	-0011	33400		2684	14478	0136	00046	1214
0100	-0066 G	3362 I		2704	14460	0164	00071	1025
0125	-0101 E	3376 H		2717	14449	0188	00099	0899
*0150	-0103	33781		2719	14453	0211	00131	0882

C-REF-NO 362	YR 1962	DEPTH 329	WAVES 1 33X2	AIR T -05.0	VIS 8
CONS. NO 005	MONTH 9	MXSAMPD 02	WAVES 2 33XX	WET B	STN 005
LAT 77-300N	DAY 27	NO.DPTH 10	WND-DIR 040	WW-CODE 03	
LON 74-000W	HR 03.1	W-COLOR	WND-SPD 20	CLD-TPE 1	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 1002.	CLD-AMT 1	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
031	0000	000	32116		2580	14453
031	0009	0016	32100		2578	14461
031	0019	0020	32124		2580	14465
031	0028	0118	32786		2628	14520
031	0046	0038	33270		2671	14494
031	0070	-0070	33578		2701	14452
031	0093	-0115	33721		2714	14437
031	0137	-0139	33848		2725	14435
031	0193	-0090	33944		2731	14469
031	0241	-0040	34061		2739	14501

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0000	32116		2580	14453	0000	00000	2202
0010	0014	3209 B		2577	14461	0022	00001	2232
0020	0031 B	3219 C		2585	14471	0044	00005	2159
0030	0118 C	3287 C		2635	14522	0064	00009	1685
0050	0018	33340		2678	14486	0094	00021	1274
0075	-0083	33618		2705	14448	0122	00039	1018
0100	-0123	33749		2717	14435	0147	00061	0902
0125	-0139	33825		2723	14433	0169	00086	0837
0150	-0132	33872		2727	14441	0189	00115	0803
0175	-0111 B	33915		2730	14455	0209	00148	0776
0200	-0095 D	3398 B		2734	14468	0228	00185	0734
0225	-0064 B	34029		2737	14487	0246	00225	0706

C-REF-NO 362	YR 1962	DEPTH 735	WAVES 1 34X2	AIR T -05.0	VIS 8
CONS. NO 006	MONTH 9	MXSAMPD 07	WAVES 2 0146	WET B	STN 006
LAT 77-310N	DAY 27	NO.DPTH 15	WND-DIR 340	WW-CODE 02	
LON 74-540W	HR 06.6	W-COLOR	WND-SPD 11	CLD-TPE 1	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 1002.	CLD-AMT 1	HW

O B S E R V E D

	GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
	066	0000	-007	32493		2614	14426
	066	0010	-0020	32316		2597	14448
	066	0020	-0020	32333		2599	14450
	066	0030	-0020	32371		2602	14452
	066	0050	-0016	33113		2661	14468
	066	0075	-0092	33507		2696	14442
	066	0100	-0103	33717		2714	14444
	066	0150	-0114	33898		2729	14450
	066	0200	-0086	34025		2738	14473
	066	0250	-0036	34175		2748	14506
	066	0300	-0044	34225		2752	14512
	066	0400	-0046	34321		2760	14529
	066	0500	-0033	34409		2767	14553
2	066	0600	-0086	34459		2773	14545
	066	0710	-0027	34480		2772	14591

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0070	32493		2614	14426	0000	00000	1887
0010	-0020	32316		2597	14448	0020	00001	2041
0020	-0020	32333		2599	14450	0040	00004	2027
0030	-0020	32371		2602	14452	0061	00009	1998
0050	-0016	33113		2661	14468	0095	00023	1432
0075	-0092	33507		2696	14442	0127	00043	1099
0100	-0103	33717		2714	14444	0153	00066	0933
0125	-0112	3383 B		2723	14446	0175	00091	0842
0150	-0114	33898		2729	14450	0195	00120	0789
0175	-0104	33963		2734	14459	0215	00152	0741
0200	-0086	34025		2738	14473	0233	00187	0700
0225	-0059 B	34105		2743	14491	0250	00224	0650
0250	-0036	34175		2748	14506	0266	00263	0607
0300	-0044	34225		2752	14512	0295	00346	0564
0400	-0046	34321		2760	14529	0348	00536	0488
0500	-0033	34409		2767	14552	0395	00748	0427
0600	-0086	34459		2773	14545	0434	00970	0357
0700	-0031 B	34480		2772	14588	0471	01216	0371

C-REF-NO 362 YR 1962 DEPTH 1053 WAVES 1 12X3 AIR T -03.3 VIS B
 CONS. NO 007 MONTH 9 MXSAMPD 10 WAVES 2 1282 WET B STN 007
 LAT 77-000N DAY 27 NO.DPTH 16 WND-DIR 150 WW-CODE 02
 LON 72-000W HR 13.8 W-COLOR WND-SPD 10 CLD-TPE 6
 MARSD SQ 260 C/I 1810 W-TRNSP BARO 1001. CLD-AMT 3 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
138	0000	-003	31628		2542	14432
138	0010	0001	31811		2556	14451
138	0020	0106	32361		2595	14508
138	0030	0110	32607		2614	14515
138	0050	0049	33268		2671	14500
138	0075	-0096	33625		2706	14442
138	0100	-0132	33743		2717	14431
138	0149	-0150	33814		2723	14431
138	0199	-0105	33917		2730	14462
138	0249	-0050	34016		2736	14497
138	0299	-0029	34112		2742	14517
138	0399	-0006	34275		2755	14546
138	0498	-0002	34369		2762	14566
138	0598	-0006	34386		2763	14581
138	0798	-0010	34403		2765	14613
138	0997		34415			

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0030	31628		2542	14432	0000	00000	2564
0010	0001	31811		2556	14451	0025	00001	2436
0020	0106	32361		2595	14508	0048	00005	2067
0030	0110	32607		2614	14515	0068	00010	1882
0050	0049	33268		2671	14500	0100	00022	1345
0075	-0096	33625		2706	14442	0130	00041	1007
0100	-0132	33743		2717	14431	0154	00062	0904
0125	-0149	3379 B		2721	14427	0176	00088	0860
0150	-0149	33816		2723	14432	0198	00118	0840
0175	-0131	33866		2727	14445	0218	00153	0806
0200	-0104	33919		2730	14463	0238	00191	0774
0225	-0075	33969		2733	14481	0257	00233	0747
0250	-0049	34018		2736	14498	0276	00278	0720
0300	-0029	34114		2743	14517	0311	00376	0656
0400	-0006	34276		2755	14546	0371	00591	0544
0500	-0002	34370		2762	14566	0423	00827	0475
0600	-0004	34386		2763	14582	0470	01094	0460
0700	-0006	34396		2764	14598	0516	01402	0450
0800		34406						
1000		34415						

C-REF-NO 362	YR 1962	DEPTH 388	WAVES 1 12X2	AIR T -03.3	VIS 9
CONS. NO 008	MONTH 9	MXSAMPD 03	WAVES 2 XX	WET B	STN 008
LAT 77-000N	DAY 27	NO.DPTH 10	WND-DIR 120	WW-CODE 03	
LON 73-000W	HR 18.5	W-COLOR	WND-SPD 10	CLD-TPE 4	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 1002.	CLD-AMT 4	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
185	0000	-012	31845		2563	14393
185	0010	-0090	31836		2561	14409
185	0020	0096	32825		2632	14510
185	0030	0025	33404		2683	14487
185	0050	-0065	33571		2700	14451
185	0075	-0118	33723		2715	14433
185	0100	-0154	33819		2723	14421
185	0150	-0124	33920		2731	14445
185	0200	-0070	34080		2742	14481
185	0300	-0025	34259		2754	14521

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0120	31845		2563	14393	0000	00000	2370
0010	-0090	31836		2561	14409	0024	00001	2384
0020	0096	32825		2632	14510	0045	00004	1708
0030	0025	33404		2683	14487	0059	00008	1229
0050	-0065	33571		2700	14451	0082	00017	1061
0075	-0118	33723		2715	14433	0107	00033	0925
0100	-0154	33819		2723	14421	0130	00053	0839
0125	-0149 B	3387 B		2728	14429	0150	00077	0797
0150	-0124	33920		2731	14445	0170	00104	0768
0175	-0097	33999		2736	14463	0189	00136	0716
0200	-0070	34080		2742	14481	0206	00169	0665
0225	-0066 D	3411 C		2744	14487	0223	00205	0645
0250	-0051 C	3416 C		2747	14499	0239	00244	0611
0300	-0025	34259		2754	14521	0268	00326	0548

C-REF-NO 362 YR 1962 DEPTH 603 WAVES 1 12X2 AIR T -04.4 VIS 8
 CONS. NO 009 MONTH 9 MXSAMPD 06 WAVES 2 1046 WET B STN 009
 LAT 76-595N DAY 27 NO.DPTH 14 WND-DIR 180 WW-CODE 02
 LON 74-280W HR 22.0 W-COLOR WND-SPD 13 CLD-TPE 8
 MARSD SQ 260 C/I 1810 W-TRNSP BARO 1003. CLD-AMT 7 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
220	0000	-013	31250		2515	14380
220	0010	-0150	31145		2507	14371
220	0020	-0113	31672		2549	14397
220	0030	0009	32149		2583	14462
220	0050	0025	33014		2651	14485
220	0075	-0107	33463		2693	14434
220	0100	-0114	33699		2712	14439
220	0150	-0110	33915		2730	14452
220	0200	-0078	34061		2740	14477
220	0250	-0044	34214		2751	14503
220	0300	-0048	34298		2758	14511
220	0400	-0037	34400		2766	14534
220	0500	-0031	34454		2770	14554
220	0575	-0028	34486		2773	14568

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0130	31250		2515	14380	0000	00000	2825
0010	-0150	31145		2507	14371	0029	00001	2901
0020	-0113	31672		2549	14397	0056	00006	2503
0030	0009	32149		2583	14462	0080	00012	2180
0050	0025	33014		2651	14485	0117	00026	1526
0075	-0107	33463		2693	14434	0150	00047	1128
0100	-0114	33699		2712	14439	0176	00070	0943
0125	-0115	3383 B		2723	14444	0199	00096	0839
0150	-0110	33915		2730	14452	0219	00125	0777
0175	-0096	33992		2736	14464	0238	00156	0722
0200	-0078	34061		2740	14477	0256	00190	0676
0225	-0059	34141		2746	14491	0272	00226	0623
0250	-0044	34214		2751	14503	0287	00262	0574
0300	-0048	34298		2758	14511	0314	00339	0507
0400	-0037	34400		2766	14534	0362	00508	0433
0500	-0031	34454		2770	14554	0404	00700	0394

C-REF-NO 362	YR 1962	DEPTH 435	WAVES 1 XO	AIR T -02.8	VIS 7
CONS. NO 010	MONTH 9	MXSAMPD 04	WAVES 2 XO	WET B	STN 010
LAT 77-000N	DAY 28	NO.DPTH 12	WND-DIR 160	WW-CODE 71	
LON 76-000W	HR 02.7	W-COLOR	WND-SPD 03	CLD-TPE 7	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 1003.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
027	0000	-016	30754		2475	14359
027	0010	-0157	30761		2476	14362
027	0020	-0107	31427		2529	14397
027	0030	-0080	31539		2537	14413
027	0050	0056	32367		2598	14490
027	0075	-0060	33067		2659	14451
027	0100	-0072	33414		2688	14454
027	0150	-0106	33853		2725	14453
027	0200	-0085	34041		2739	14473
027	0250	-0050	34186		2749	14500
027	0300	-0054	34273		2757	14508
027	0400	-0040	34382		2765	14532

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0160	30754		2475	14359	0000	00000	3202
0010	-0157	30761		2476	14362	0032	00002	3196
0020	-0107	31427		2529	14397	0062	00006	2693
0030	-0080	31539		2537	14413	0088	00013	2614
0050	0056	32367		2598	14490	0135	00031	2035
0075	-0060	33067		2659	14451	0179	00059	1448
0100	-0072	33414		2688	14454	0212	00088	1176
0125	-0092 B	33670		2709	14453	0239	00119	0972
0150	-0106	33853		2725	14453	0262	00151	0826
0175	-0100	3397 B		2734	14461	0282	00183	0741
0200	-0085	34041		2739	14473	0300	00218	0688
0225	-0066	34120		2745	14487	0316	00254	0636
0250	-0050	34186		2749	14500	0332	00292	0592
0300	-0054	34273		2757	14508	0360	00371	0523
0400	-0040	34382		2765	14532	0409	00545	0445

C-REF-NO 362	YR 1962	DEPTH 183	WAVES 1 XX	AIR T -02.2	VIS 4
CONS. NO 011	MONTH 9	MXSAMPD 02	WAVES 2 XX	WET B	STN 011
LAT 77-000N	DAY 28	NO.DPTH 9	WND-DIR 140	WW-CODE 22	
LON 77-000W	HR 06.7	W-COLOR	WND-SPD 08	CLD-TPE 7	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 1003.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
067	0000	-015	29821		2400	14351
067	0010	-0162	30301		2439	14353
067	0020	-0161	30328		2441	14356
067	0030	-0156	30329		2441	14360
067	0050	-0128	30648		2466	14381
067	0075	-0065	31984		2572	14433
067	0100	-0065	32768		2636	14448
067	0149	-0117	33676		2711	14445
067	0174	-0118	33752		2717	14450

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0150	29821		2400	14351	0000	00000	3923
0010	-0162	30301		2439	14353	0038	00002	3550
0020	-0161	30328		2441	14356	0073	00007	3528
0030	-0156	30329		2441	14360	0109	00016	3527
0050	-0128	30648		2466	14381	0177	00044	3284
0075	-0065	31984		2572	14433	0247	00087	2274
0100	-0065	32768		2636	14448	0297	00131	1673
0125	-0091 C	3335 B		2683	14448	0333	00172	1220
0150	-0105 D	3367 B		2710	14451	0361	00211	0968
0175	-0119	33751		2717	14449	0384	00250	0898

C-REF-NO 362	YR 1962	DEPTH 292	WAVES 1 XX	AIR T -01.1	VIS 6
CONS. NO 012	MONTH 9	MXSAMPD 01	WAVES 2 XX	WET B	STN 012
LAT 76-070N	DAY 28	NO.DPTH 8	WND-DIR 120	WW-CODE 85	
LON 81-310W	HR 23.9	W-COLOR	WND-SPD 23	CLD-TPE 9	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1002.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
239	0000	-013	31095		2502	14378
239	0007	-0148	31087		2502	14370
239	0015	-0145	31104		2503	14373
239	0022	-0143	31142		2506	14376
239	0037	-0139	31181		2509	14381
239	0055	-0138	31347		2523	14387
239	0073	-0054	32605		2622	14447
239	0110	-0084	33604		2704	14453

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0130	31095		2502	14378	0000	00000	2945
0010	-0148	31090		2502	14371	0030	00002	2944
0020	-0144	31131		2505	14375	0059	00006	2913
0030	-0141	3116 B		2508	14379	0088	00014	2889
0050	-0142 B	3124 F		2514	14382	0146	00037	2826
0075	-0090 I	3227 I		2596	14426	0207	00075	2049
0100	-0082 F	3319 I		2670	14446	0250	00112	1345

C-REF-NO 362 YR 1962 DEPTH 732 WAVES 1 09XX AIR T -01.1 VIS 5
 CONS. NO 013 MONTH 9 MXSAMPD 06 WAVES 2 10XX WET B STN 013
 LAT 76-040N DAY 29 NO.DPTH 15 WND-DIR 090 WW-CODE 23
 LON 81-310W HR 01.7 W-COLOR WND-SPD 23 CLD-TPE 7
 MARSD SQ 261 C/I 1810 W-TRNSP BARO 1000. CLD-AMT 6 HW

O B S E R V E D

	GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
	017	0000	-012	31306		2519	14386
	017	0009	-0132	31305		2519	14381
	017	0018	-0131	31304		2519	14383
	017	0027	-0131	31318		2520	14385
	017	0046	-0090	31948		2570	14416
	017	0068	-0070	32804		2639	14441
	017	0091	-0080	33179		2669	14446
	017	0137	-0078	33531		2698	14459
	017	0183	-0082	33705		2712	14467
	017	0223	-0097	33872		2726	14469
	017	0268	-0081	34009		2736	14486
	017	0358	-0041	34221		2752	14523
2	017	0450	-0120	34285		2760	14502
	017	0542	-0024	34313		2758	14562
	017	0638	-0020	34336		2760	14581

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0120	31306		2519	14386	0000	00000	2785
0010	-0132	31305		2519	14382	0028	00001	2782
0020	-0131	31299		2519	14383	0056	00006	2786
0030	-0126	3139 C		2526	14389	0084	00013	2718
0050	-0084	3212 C		2584	14422	0133	00032	2168
0075	-0072	3295 C		2651	14444	0179	00061	1530
0100	-0081	3328 B		2677	14448	0215	00093	1279
0125	-0080	3347 B		2693	14456	0245	00127	1127
0150	-0078	3359 B		2702	14462	0272	00166	1039
0175	-0081	33680		2710	14466	0298	00208	0966
0200	-0089	33778		2718	14468	0321	00253	0887
0225	-0097	33879		2726	14470	0342	00299	0806
0250	-0090	33959		2733	14478	0362	00347	0747
0300	-0061 C	34098		2743	14502	0397	00446	0653
0400	-0080 F	34262		2757	14512	0456	00655	0515
0500	-0073 F	34303		2760	14532	0507	00887	0485
0600	-0045 H	34332		2761	14562	0555	01162	0476

C-REF-NO 362	YR 1962	DEPTH 640	WAVES 1 12X2	AIR T -00.6	VIS 5
CONS. NO 014	MONTH 9	MXSAMPD 06	WAVES 2 12XX	WET B	STN 014
LAT 75-580N	DAY 29	NO.DPTH 14	WND-DIR 120	WW-CODE 22	
LON 81-410W	HR 04.8	W-COLOR	WND-SPD 15	CLD-TPE 6	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1002.	CLD-AMT 7	HW

O B S E R V E D

	GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
	048	0000	-012	31277		2517	14385
	048	0010	-0098	31315		2519	14398
	048	0020	-0095	31340		2521	14401
	048	0030	-0056	32443		2609	14436
	048	0050	-0077	32837		2642	14435
	048	0075	-0083	33118		2664	14441
	048	0100	-0082	33341		2682	14448
	048	0140	-0081	33542		2699	14458
	048	0187	-0096	33780		2718	14463
	048	0235	-0069	34062		2740	14487
	048	0283	-0047	34172		2748	14507
2	048	0378	-0081	34263		2757	14508
	048	0475	-0026	34295		2757	14550
	048	0584	-0023	34322		2759	14570

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0120	31277		2517	14385	0000	00000	2807
0010	-0098	31315		2519	14398	0028	00001	2782
0020	-0095	31340		2521	14401	0056	00006	2763
0030	-0056	32443		2609	14436	0080	00012	1929
0050	-0077	32837		2642	14435	0115	00026	1618
0075	-0083	33118		2664	14441	0153	00050	1400
0100	-0082	33341		2682	14448	0186	00079	1228
0125	-0081	3348 B		2693	14455	0216	00113	1123
0150	-0085	33591		2703	14459	0243	00152	1034
0175	-0093	33717		2713	14461	0268	00193	0933
0200	-0091	3386 B		2725	14468	0290	00235	0822
0225	-0076	34009		2736	14481	0310	00277	0716
0250	-0060	34108		2744	14494	0327	00319	0647
0300	-0052 C	34197		2750	14507	0358	00406	0581
0400	-0070 B	34273		2757	14517	0413	00603	0512
0500	-0047 G	34312		2759	14545	0464	00837	0492

C-REF-NO 362	YR 1962	DEPTH 442	WAVES 1 12X4	AIR T 00.6	VIS 6
CONS. NO 015	MONTH 9	MXSAMPD 04	WAVES 2 1182	WET B	STN 015
LAT 75-532N	DAY 29	NO.DPTH 12	WND-DIR 120	WW-CODE 22	
LON 81-380W	HR 07.2	W-COLOR	WND-SPD 13	CLD-TPE 7	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1002.	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
072	0000	-005	32196		2589	14431
072	0010	-0056	32354		2602	14432
072	0019	-0056	32346		2601	14433
072	0029	-0064	32555		2618	14434
072	0047	-0082	33125		2665	14437
072	0071	-0082	33307		2680	14443
072	0095	-0081	33417		2689	14449
072	0142	-0082	33637		2706	14460
072	0190	-0088	33826		2722	14467
072	0237	-0066	34071		2741	14489
072	0285	-0047	34179		2749	14507
072	0381	-0028	34285		2756	14533

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0050	32196		2589	14431	0000	00000	2122
0010	-0056	32354		2602	14432	0021	00001	1998
0020	-0057	32360		2602	14433	0041	00004	1993
0030	-0065	32588		2621	14434	0060	00009	1814
0050	-0083	3317 B		2668	14437	0092	00022	1363
0075	-0082	33328		2681	14444	0125	00042	1240
0100	-0081	33441		2690	14450	0155	00069	1152
0125	-0081	33559		2700	14456	0183	00101	1061
0150	-0084	33668		2709	14460	0208	00138	0976
0175	-0087	33766		2717	14464	0232	00177	0899
0200	-0084	33881		2726	14471	0254	00218	0810
0225	-0073	3401 B		2736	14483	0273	00260	0715
0250	-0060	34109		2744	14494	0290	00302	0646
0300	-0043	3424 D		2753	14512	0320	00387	0555

C-REF-NO 362	YR 1962	DEPTH 576	WAVES 1 09X4	AIR T -00.6	VIS 4
CONS. NO 016	MONTH 9	MXSAMPD 05	WAVES 2 0946	WET B	STN 016
LAT 75-545N	DAY 29	NO.DPTH 13	WND-DIR 090	WW-CODE 73	
LON 82-280W	HR 09.8	W-COLOR	WND-SPD 15	CLD-TPE 6	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1002.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
098	0000	-006	32479		2612	14430
098	0010	-0072	32667		2628	14429
098	0020	-0076	32807		2639	14431
098	0030	-0076	32895		2646	14433
098	0050	-0082	32971		2653	14435
098	0075	-0083	33174		2669	14442
098	0100	-0082	33288		2678	14448
098	0137	-0093	33599		2704	14453
098	0183	-0088	33804		2720	14466
098	0231	-0065	34055		2739	14488
098	0277	-0048	34169		2748	14505
098	0371	-0031	34266		2755	14530
098	0490	-0024	34307		2758	14554

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0060	32479		2612	14430	0000	00000	1901
0010	-0072	32667		2628	14429	0018	00001	1753
0020	-0076	32807		2639	14431	0035	00004	1643
0030	-0076	32895		2646	14433	0052	00008	1576
0050	-0082	32971		2653	14435	0083	00020	1514
0075	-0083	33174		2669	14442	0119	00043	1357
0100	-0082	33288		2678	14448	0152	00073	1269
0125	-0089	3350 B		2695	14451	0182	00107	1106
0150	-0093	3367 B		2709	14456	0208	00144	0974
0175	-0090	33774		2718	14463	0232	00183	0891
0200	-0081	3390 B		2727	14473	0253	00224	0799
0225	-0068	34026		2737	14485	0272	00265	0706
0250	-0057	34112		2744	14496	0289	00307	0645
0300	-0042	34204		2750	14512	0320	00394	0581
0400	-0025	3431 C		2758	14538	0375	00590	0510
0500	-0025	34301		2758	14555	0427	00829	0513

C-REF-NO 362	YR 1962	DEPTH 753	WAVES 1 09X4	AIR T -00.6	VIS 6
CONS. NO 017	MONTH 9	MXSAMPD 06	WAVES 2 0946	WET B	STN 017
LAT 76-030N	DAY 29	NO.DPTH 15	WND-DIR 090	HW-CODE 73	
LON 82-340W	HR 11.9	W-COLOR	WND-SPD 21	CLD-TPE 7	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1002.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
119	0000	-012	31133		2505	14383
119	0010	-0142	31176		2509	14375
119	0020	-0141	31163		2508	14377
119	0030	-0143	31146		2507	14377
119	0050	-0058	32437		2609	14439
119	0075	-0078	32877		2645	14440
119	0100	-0078	33122		2665	14447
119	0149	-0078	33482		2694	14460
119	0180	-0078	33564		2700	14467
119	0199	-0078	33631		2706	14471
119	0215	-0091	33714		2713	14469
119	0292	-0052	34147		2746	14506
119	0372	-0032	34259		2754	14530
119	0457	-0028	34293		2757	14546
119	0591	-0020	34335		2760	14573

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0120	31133		2505	14383	0000	00000	2918
0010	-0142	31176		2509	14375	0029	00001	2879
0020	-0141	31163		2508	14377	0058	00006	2888
0030	-0143	31146		2507	14377	0087	00013	2900
0050	-0058	32437		2609	14439	0136	00032	1932
0075	-0078	32877		2645	14440	0180	00060	1586
0100	-0078	33122		2665	14447	0218	00094	1397
0125	-0078	33333		2682	14454	0251	00132	1235
0150	-0078	33485		2694	14461	0281	00173	1117
0175	-0078	33553		2699	14466	0308	00219	1064
0200	-0079	33636		2706	14471	0334	00269	1000
0225	-0090 B	3378 B		2718	14471	0358	00321	0886
0250	-0082 D	3393 C		2730	14481	0379	00372	0774
0300	-0049	34168		2748	14508	0414	00469	0605
0400	-0030	34275		2756	14535	0471	00673	0531
0500	-0021	3433 B		2760	14557	0523	00912	0494
0600	-0020	34333		2760	14574	0572	01193	0490

C-REF-NO 362	YR 1962	DEPTH 647	WAVES 1 09X4	AIR T -00.6	VIS 7
CONS. NO 018	MONTH 9	MXSAMPD 06	WAVES 2 0946	WET B	STN 018
LAT 76-100N	DAY 29	NO.DPTH 15	WND-DIR 090	WW-CODE 68	
LON 82-340W	HR 15.0	W-COLOR	WND-SPD 21	CLD-TPE 6	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1004.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
150	0000	-011	31242		2514	14389
150	0010	-0132	31229		2513	14381
150	0020	-0125	31261		2516	14386
150	0030	-0093	31532		2537	14406
150	0049	-0072	32026		2576	14426
150	0074	-0067	32493		2613	14439
150	0099	-0077	33084		2661	14447
150	0148	-0080	33568		2701	14461
150	0198	-0084	33857		2724	14471
150	0223	-0090	33845		2723	14472
150	0268	-0067	34033		2738	14493
150	0358	-0036	34232		2752	14525
150	0449	-0027	34291		2757	14545
150	0541	-0021	34320		2759	14564
150	0588	-0019	34338		2760	14573

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0110	31242		2514	14389	0000	00000	2836
0010	-0132	31229		2513	14381	0029	00001	2840
0020	-0125	31261		2516	14386	0057	00006	2816
0030	-0093	31532		2537	14406	0084	00013	2615
0050	-0071	32045		2577	14427	0133	00032	2227
0075	-0067	32518		2615	14440	0185	00065	1865
0100	-0077	33099		2663	14447	0226	00101	1415
0125	-0080	3341 F		2688	14454	0258	00138	1176
0150	-0080	33586		2702	14461	0286	00178	1040
0175	-0081	3376 B		2716	14467	0311	00218	0903
0200	-0085	33856		2724	14471	0333	00260	0829
0225	-0089	33851		2724	14473	0354	00306	0830
0250	-0079	3395 C		2731	14483	0374	00355	0762
0300	-0054	34125		2745	14506	0409	00454	0635
0400	-0030	34270		2755	14535	0468	00663	0535
0500	-0023	34308		2758	14555	0521	00907	0508

C-REF-NO 362 YR 1962 DEPTH 622 WAVES 1 XO AIR T 01.1 VIS 5
 CONS. NO 019 MONTH 9 MXSAMPD 05 WAVES 2 XO WET B STN 019
 LAT 76-175N DAY 29 NO.DPTH 14 WND-DIR 120 WW-CODE 85
 LON 82-450W HR 17.8 W-COLOR WND-SPD 04 CLD-TPE 5
 MARSD SQ 261 C/I 1810 W-TRNSP BAKO 1005. CLD-AMT 8 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
178	0000	-010	31247		2514	14394
178	0010	-0118	31235		2513	14387
178	0020	-0117	31241		2514	14389
178	0030	-0121	31238		2514	14389
178	0050	-0049	32239		2592	14440
178	0074	-0074	32849		2642	14441
178	0099	-0080	33111		2664	14446
178	0124	-0083	33457		2692	14454
178	0173	-0081	33852		2724	14468
178	0223	-0072	34017		2737	14483
178	0272	-0061	34101		2743	14497
178	0372	-0038	34250		2754	14527
178	0471	-0029	34295		2757	14548
178	0544	-0025				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0100	31247		2514	14394	0000	00000	2835
0010	-0118	31235		2513	14387	0029	00001	2839
0020	-0117	31241		2514	14389	0057	00006	2833
0030	-0121	31238		2514	14389	0086	00013	2834
0050	-0049	32239		2592	14440	0135	00033	2086
0075	-0074	32862		2644	14441	0181	00062	1599
0100	-0080	33125		2665	14446	0219	00095	1394
0125	-0083	33468		2693	14454	0251	00131	1130
0150	-0083	33704		2712	14461	0277	00168	0948
0175	-0081	33862		2724	14469	0300	00205	0828
0200	-0077	3396 B		2732	14476	0319	00244	0753
0225	-0072	34021		2737	14483	0338	00284	0708
0250	-0066	34068		2741	14491	0355	00326	0674
0300	-0054	34149		2747	14506	0388	00418	0617
0400	-0035	3426 B		2755	14533	0446	00626	0539
0500	-0026							

C-REF-NO 362	YR 1962	DEPTH 122	WAVES 1 08X4	AIR T 00.6	VIS 8
CONS. NO 020	MONTH 9	MXSAMPD 01	WAVES 2 0726	WET B	STN 020
LAT 76-100N	DAY 29	NO.DPTH 7	WND-DIR 070	WW-CODE 01	
LON 84-260W	HR 21.3	W-COLOR	WND-SPD 10	CLD-TPE 0	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1007.	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
213	0000	-008	31570		2539	14408
213	0010	-0088	31508		2535	14405
213	0020	-0086	31519		2535	14408
213	0030	-0017	31981		2570	14448
213	0050	-0062	32668		2627	14440
213	0075	-0074	32861		2643	14441
213	0110	-0083	33291		2678	14449

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0080	31570		2539	14408	0000	00000	2592
0010	-0088	31508		2535	14405	0026	00001	2637
0020	-0086	31519		2535	14408	0053	00005	2628
0030	-0017	31981		2570	14448	0078	00012	2297
0050	-0062	32668		2627	14440	0118	00028	1753
0075	-0074	32861		2643	14441	0161	00055	1600
0100	-0087 8	3326 1		2676	14445	0197	00087	1285

C-REF-NO 362	YR 1962	DEPTH 732	WAVES 1 09X4	AIR T 00.0	VIS 8
CONS. NO 021	MONTH 9	MXSAMPD 07	WAVES 2 0946	WET B	STN 021
LAT 76-047N	DAY 30	NO.DPTH 15	WND-DIR 090	WW-CODE 02	
LON 84-200W	HR 00.2	W-COLOR	WND-SPD 14	CLD-TPE 6	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1007.	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
002	0000	-010				
002	0010	-0113	31677		2549	14396
002	0020	-0112	31680		2549	14398
002	0040	-0066	32721		2632	14437
002	0060	-0081	33057		2659	14438
002	0085	-0081	33184		2670	14444
002	0109	-0082	33449		2691	14451
002	0159	-0083	33738		2715	14463
002	0209	-0078	33959		2732	14477
002	0244	-0060	34100		2743	14493
002	0293	-0045	34190		2749	14510
002	0392	-0028	34281		2756	14535
002	0491	-0024	34307		2758	14554
002	0590	-0025	34320		2759	14570
002	0688	-0020	34342		2761	14589

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0100	3150 I		2534	14398	0000	00000	2642
0010	-0113	31677		2549	14396	0026	00001	2500
0020	-0112	31680		2549	14398	0051	00005	2497
0030	-0089 C	3216 I		2587	14417	0074	00011	2136
0050	-0071 B	3295 D		2650	14440	0111	00026	1537
0075	-0082	3314 D		2666	14441	0148	00049	1381
0100	-0082	3335 B		2683	14449	0181	00078	1225
0125	-0083	3357 B		2701	14455	0210	00111	1056
0150	-0083	3370 B		2712	14461	0235	00147	0950
0175	-0083	33814		2721	14467	0258	00185	0864
0200	-0080	33923		2729	14474	0278	00224	0781
0225	-0070	34028		2737	14484	0297	00265	0704
0250	-0058	34115		2744	14495	0314	00306	0642
0300	-0043	34199		2750	14512	0345	00394	0584
0400	-0027	34285		2756	14537	0401	00594	0526
0500	-0024	34308		2758	14555	0453	00835	0508
0600	-0023	34326		2759	14573	0504	01121	0494

C-REF-NO 362	YR 1962	DEPTH 558	WAVES 1 09X4	AIR T -00.6	VIS 7
CONS. NO 022	MONTH 9	MXSAMPD 05	WAVES 2 0946	WET B	STN 022
LAT 75-580N	DAY 30	NO.DPTH 13	WND-DIR 090	WW-CODE 02	
LON 84-140W	HR 03.4	W-COLOR	WND-SPD 13	CLD-TPE 6	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1009.	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
034	0000	-011	31530		2537	14393
034	0010	-0132	31531		2538	14385
034	0020	-0126	31614		2544	14390
034	0030	-0105	32074		2581	14408
034	0050	-0058	33235		2673	14450
034	0074	-0068	33282		2677	14450
034	0099	-0070	33451		2691	14455
034	0149	-0069	33657		2707	14467
034	0198	-0084	33860		2724	14471
034	0247	-0067	34047		2739	14490
034	0297	-0044	34177		2748	14510
034	0396	-0029	34277		2756	14535
034	0495	-0024	34348		2761	14555

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0110	31530		2537	14393	0000	00000	2615
0010	-0132	31531		2538	14385	0026	00001	2608
0020	-0126	31614		2544	14390	0052	00005	2545
0030	-0105	32074		2581	14408	0076	00011	2196
0050	-0058	33235		2673	14450	0111	00025	1321
0075	-0068	33288		2678	14450	0144	00046	1275
0100	-0070	33456		2691	14456	0175	00073	1145
0125	-0069	3357 B		2700	14462	0202	00105	1058
0150	-0069	33661		2708	14467	0228	00141	0987
0175	-0078	33766		2717	14469	0252	00181	0902
0200	-0084	33868		2725	14472	0274	00223	0821
0225	-0077	33968		2733	14480	0293	00266	0747
0250	-0066	34056		2740	14491	0312	00309	0683
0300	-0043	34182		2749	14511	0344	00400	0597
0400	-0024 B	3431 D		2758	14539	0400	00599	0510
0500	-0025	34348		2761	14555	0450	00829	0478

C-REF-NO 362	YR 1962	DEPTH 120	WAVES 1	XO	AIR T 00.0	VIS 7
CONS. NO 023	MONTH 9	MXSAMPD 01	WAVES 2	XO	WET B	STN 023
LAT 75-530N	DAY 30	NO.DPTH 7	WNO-DIR 090	WW-CODE 02		
LON 84-040W	HR 05.6	W-COLOR	WNO-SPD 05	CLD-TPE 5		
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1009.	CLD-AMT 6	HW	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
056	0000	-010	31250		2514	14394
056	0010	-0114	31251		2515	14389
056	0020	-0054	32424		2607	14435
056	0030	-0064	32600		2622	14435
056	0050	-0072	32866		2644	14438
056	0075	-0072	33087		2662	14445
056	0100	-0072	33247		2674	14452

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0100	31250		2514	14394	0000	00000	2832
0010	-0114	31251		2515	14389	0028	00001	2827
0020	-0054	32424		2607	14435	0052	00005	1945
0030	-0064	32600		2622	14435	0071	00010	1806
0050	-0072	32866		2644	14438	0106	00024	1598
0075	-0072	33087		2662	14445	0144	00048	1428
0100	-0072	33247		2674	14452	0178	00078	1304

C-REF-NO 362	YR 1962	DEPTH 356	WAVES 1	X0	AIR T -03.3	VIS 7
CONS. NO 024	MONTH 10	MXSAMPD 03	WAVES 2	X0	WET B	STN 024
LAT 73-400N	DAY 02	NO.DPTH 11	WND-DIR 020	WW-CODE 03		
LON 84-000W	HR 18.3	W-COLOR	WND-SPD 01	CLD-TPE 6		
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 995.	CLD-AMT 6	HW	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
183	0000	-012	31490		2534	14388
183	0010	-0132	31474		2533	14384
183	0020	-0129	31489		2534	14387
183	0030	-0139	31904		2568	14390
183	0050	-0144	32363		2605	14397
183	0075	-0140	32516		2617	14406
183	0100	-0126	32661		2629	14418
183	0150	-0117	33043		2660	14436
183	0200	-0124	33296		2680	14445
183	0250	-0118	33590		2704	14460
183	0329	-0064	34051		2739	14505

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0120	31490		2534	14388	0000	00000	2643
0010	-0132	31474		2533	14384	0027	00001	2652
0020	-0129	31489		2534	14387	0053	00005	2640
0030	-0139	31904		2568	14390	0078	00012	2318
0050	-0144	32363		2605	14397	0121	00029	1962
0075	-0140	32516		2617	14406	0169	00060	1844
0100	-0126	32661		2629	14418	0214	00100	1734
0125	-0119	3285 B		2644	14428	0256	00148	1588
0150	-0117	33043		2660	14436	0294	00202	1441
0175	-0120	3318 B		2670	14441	0329	00260	1338
0200	-0124	33296		2680	14445	0362	00322	1242
0225	-0123	33441		2692	14451	0392	00387	1131
0250	-0118	33590		2704	14460	0419	00453	1017
0300	-0088	33874		2726	14486	0465	00582	0811

C-REF-NO 362	YR 1962	DEPTH 256	WAVES 1 07X1	AIR T -04.4	VIS 8
CONS. NO 025	MONTH 10	MXSAMPD 02	WAVES 2 X0	WET B	STN 025
LAT 73-470N	DAY 02	NO.DPTH 10	WND-DIR 090	WW-CODE 70	
LON 84-000W	HR 19.7	W-COLOR	WND-SPD 02	CLD-TPE 5	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 995.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
197	0000	-007	31700		2550	14415
197	0010	-0080	31723		2552	14412
197	0020	-0078	31733		2552	14415
197	0030	-0071	31746		2553	14420
197	0050	-0055	32503		2614	14441
197	0075	-0068	32716		2631	14442
197	0100	-0089	33077		2661	14442
197	0150	-0109	33449		2692	14446
197	0200	-0128	33779		2719	14450
197	0225	-0118	33882		2727	14460

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0070	31700		2550	14415	0000	00000	2495
0010	-0080	31723		2552	14412	0025	00001	2474
0020	-0078	31733		2552	14415	0050	00005	2466
0030	-0071	31746		2553	14420	0075	00011	2458
0050	-0055	32503		2614	14441	0118	00029	1882
0075	-0068	32716		2631	14442	0164	00058	1713
0100	-0089	33077		2661	14441	0203	00093	1428
0125	-0101	3330 D		2679	14443	0237	00131	1256
0150	-0109	33449		2692	14446	0267	00174	1134
0175	-0122	33627		2707	14446	0294	00218	0992
0200	-0128	33779		2719	14450	0317	00263	0872
0225	-0118	33882		2727	14460	0338	00309	0796

C-REF-NO 362	YR 1962	DEPTH 640	WAVES 1 07X1	AIR T -04.4	VIS 8
CONS. NO 026	MONTH 10	MXSAMPD 06	WAVES 2 3642	WET B	STN 026
LAT 73-540N	DAY 02	NO.DPTH 14	WND-DIR 030	WW-CODE 85	
LON 84-000W	HR 22.0	W-COLOR	WND-SPD 01	CLD-TPE 5	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 995.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
220	0000	-011	31530		2537	14393
220	0010	-0108	31487		2533	14395
220	0020	-0076	32175		2588	14422
220	0030	-0100	32546		2619	14417
220	0050	-0051	32907		2646	14449
220	0075	-0072	33155		2667	14446
220	0100	-0103	33268		2677	14438
220	0150	-0126	33539		2700	14439
220	0200	-0093	33807		2720	14466
220	0250	-0058	34063		2740	14495
220	0300	-0014	34218		2750	14525
220	0400	0061	34386		2760	14578
220	0500	0052	34434		2764	14592
220	0620	-0003	34452		2769	14587

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0110	31530		2537	14393	0000	00000	2615
0010	-0108	31487		2533	14395	0026	00001	2647
0020	-0076	32175		2588	14422	0050	00005	2128
0030	-0100	32546		2619	14417	0070	00010	1835
0050	-0051	32907		2646	14449	0105	00024	1575
0075	-0072	33155		2667	14446	0142	00047	1376
0100	-0103	33268		2677	14438	0175	00077	1277
0125	-0121	33400		2689	14435	0206	00113	1168
0150	-0126	33539		2700	14439	0234	00152	1059
0175	-0113	33674		2710	14451	0260	00194	0959
0200	-0093	33807		2720	14466	0283	00238	0864
0225	-0076	33942		2731	14480	0303	00283	0767
0250	-0058	34063		2740	14495	0321	00328	0682
0300	-0014	34218		2750	14525	0353	00417	0585
0400	0061	34386		2760	14578	0408	00613	0503
0500	0052	34434		2764	14591	0457	00837	0461
0600	0013	34459		2768	14591	0501	01087	0417

C-REF-NO 362	YR 1962	DEPTH 649	WAVES 1 07X1	AIR T -03.3	VIS 5
CONS. NO 027	MONTH 10	MXSAMPD 06	WAVES 2 3642	WET B	STN 027
LAT 74-005N	DAY 03	NO.DPTH 14	WND-DIR 060	WW-CODE 85	
LON 84-000W	HR 01.4	W-COLOR	WND-SPD 18	CLD-TPE 6	
MARKSD SQ 261	C/I 1810	W-TRNSP	BARO 996.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
014	0000	-008	31460		2530	14407
014	0010	-0101	31479		2533	14399
014	0020	-0064	31660		2546	14420
014	0030	-0098	32472		2613	14417
014	0050	-0096	32947		2651	14428
014	0075	-0116	33130		2667	14425
014	0100	-0125	33275		2679	14427
014	0150	-0116	33549		2700	14444
014	0200	-0106	33836		2723	14461
014	0224	-0100	33952		2732	14469
014	0270	-0040	34128		2744	14507
014	0365	0052	34353		2758	14568
014	0463	0061	34431		2763	14590
014	0561	0022	34434		2766	14588

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0080	31460		2530	14407	0000	00000	2677
0010	-0101	31479		2533	14399	0027	00001	2655
0020	-0064	31660		2546	14420	0053	00005	2527
0030	-0098	32472		2613	14417	0075	00011	1893
0050	-0096	32947		2651	14428	0110	00025	1528
0075	-0116	33130		2667	14425	0146	00048	1380
0100	-0125	33275		2679	14427	0179	00078	1264
0125	-0123	33413		2690	14434	0210	00113	1158
0150	-0116	33549		2700	14444	0238	00152	1055
0175	-0111	33696		2712	14452	0263	00194	0943
0200	-0106	33836		2723	14461	0286	00237	0836
0225	-0099	33956		2733	14470	0305	00280	0746
0250	-0069 B	34058		2740	14489	0323	00324	0681
0300	-0004	34217		2750	14530	0356	00414	0591
0400	0063	34394		2760	14579	0411	00610	0498
0500	0058 B	3445 B		2765	14595	0459	00830	0451

C-REF-NO 362	YR 1962	DEPTH 640	WAVES 1 10X2	AIR T -03.3	VIS 6
CONS. NO 028	MONTH 10	MXSAMPD 06	WAVES 2 42	WET B	STN 028
LAT 74-080N	DAY 03	NO.DPTH 14	WND-DIR 100	WW-CODE 26	
LON 84-000W	HR 03.8	W-COLOR	WND-SPD 15	CLD-TPE 6	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 996.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
038	0000	-008	31410		2526	14406
038	0009	-0116	31498		2535	14392
038	0018	-0114	31499		2535	14394
038	0027	-0068	32109		2582	14426
038	0045	-0076	32826		2641	14435
038	0068	-0110	33038		2659	14426
038	0091	-0118	33191		2672	14428
038	0136	-0092	33527		2698	14452
038	0181	-0111	33816		2722	14455
038	0250	-0073	34033		2738	14487
038	0300	-0001	34200		2748	14531
038	0400	0032	34332		2757	14565
038	0500	0057	34438		2764	14594
038	0600	0012	34450		2768	14590

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0080	31410		2526	14406	0000	00000	2715
0010	-0118	3149 B		2534	14391	0027	00001	2646
0020	-0104	3162 E		2544	14401	0053	00005	2549
0030	-0064 B	32269		2595	14430	0076	00011	2059
0050	-0083	3291 D		2648	14433	0113	00026	1562
0075	-0115	33087		2663	14426	0150	00049	1413
0100	-0113 B	33258		2677	14433	0184	00080	1281
0125	-0099 B	33445		2691	14446	0215	00115	1142
0150	-0097 B	33626		2706	14454	0242	00153	1003
0175	-0108	33782		2719	14455	0265	00192	0878
0200	-0108	3389 B		2728	14460	0287	00232	0795
0225	-0096	3397 B		2734	14472	0306	00275	0738
0250	-0073	34033		2738	14487	0324	00319	0698
0300	-0001	34200		2748	14531	0357	00411	0606
0400	0032	34332		2757	14564	0414	00614	0525
0500	0057	34438		2764	14594	0464	00843	0462
0600	0012	34450		2768	14590	0508	01095	0422

C-REF-NO 362	YR 1962	DEPTH 612	WAVES 1 05X1	AIR T -02.2	VIS 8
CONS. NO 029	MONTH 10	MXSAMPD 06	WAVES 2 XX	WET B	STN 029
LAT 74-150N	DAY 03	NO.DPTH 14	WND-DIR 030	WW-CODE 03	
LON 84-000W	HR 06.3	W-COLOR	WND-SPD 08	CLD-TPE 5	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 996.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
063	0000	-010	31420		2528	14397
063	0010	-0124	31428		2529	14387
063	0020	-0116	31474		2533	14393
063	0030	-0028	32174		2586	14446
063	0050	-0044	32636		2624	14448
063	0075	0036	33009		2650	14494
063	0100	-0104	33144		2667	14435
063	0150	-0098	33652		2708	14454
063	0200	-0145	33843		2725	14443
063	0250	-0115	33978		2735	14467
063	0300	-0040	34135		2745	14512
063	0400	0034	34344		2758	14566
063	0500	0049	34446		2765	14590
063	0560	0007	34439		2767	14581

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0100	31420		2528	14397	0000	00000	2702
0010	-0124	31428		2529	14387	0027	00001	2689
0020	-0116	31474		2533	14393	0054	00006	2655
0030	-0028	32174		2586	14446	0078	00012	2145
0050	-0044	32636		2624	14448	0118	00027	1784
0075	0036	33009		2650	14494	0159	00054	1535
0100	-0104	33144		2667	14435	0196	00086	1371
0125	-0122 I	3340 E		2688	14435	0228	00123	1170
0150	-0098	33652		2708	14454	0255	00161	0982
0175	-0123 C	3377 B		2719	14448	0279	00200	0881
0200	-0145	33843		2725	14443	0300	00241	0817
0225	-0138	33913		2730	14451	0320	00285	0765
0250	-0115	33978		2735	14467	0339	00330	0722
0300	-0040	34135		2745	14512	0373	00427	0635
0400	0034	34344		2758	14565	0431	00633	0517
0500	0049	34446		2765	14590	0480	00857	0450

C-REF-NO 362	YR 1962	DEPTH 608	WAVES 1 08X2	AIR T -03.3	VIS
CONS. NO 030	MONTH 10	MXSAMPD 06	WAVES 2 0782	WET B	STN 030
LAT 74-220N	DAY 03	NO.DPTH 14	WND-DIR 070	WW-CODE 02	
LON 84-000W	HR 08.6	W-COLOR	WND-SPD 08	CLD-TPE	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 997.	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
086	0000	-010	31460		2531	14397
086	0010	-0120	31429		2529	14389
086	0020	-0108	31637		2546	14399
086	0030	-0054	31991		2572	14431
086	0050	-0019	32602		2620	14459
086	0075	-0057	32972		2652	14451
086	0100	-0120	33120		2666	14428
086	0150	-0117	33429		2691	14442
086	0200	-0135	33731		2716	14446
086	0250	-0118	33930		2731	14465
086	0300	-0052	34104		2743	14506
086	0400	0024	34319		2756	14561
086	0500	0048	34453		2766	14590
086	0560	0028	34458		2767	14591

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0100	31460		2531	14397	0000	00000	2671
0010	-0120	31429		2529	14389	0027	00001	2689
0020	-0108	31637		2546	14399	0053	00005	2531
0030	-0054	31991		2572	14431	0077	00012	2276
0050	-0019	32602		2620	14459	0119	00028	1821
0075	-0057	32972		2652	14451	0161	00054	1521
0100	-0120	33120		2666	14428	0197	00087	1385
0125	-0128 D	33274		2679	14430	0231	00125	1263
0150	-0117	33429		2691	14442	0261	00168	1146
0175	-0127	33587		2704	14443	0288	00213	1021
0200	-0135	33731		2716	14446	0313	00260	0906
0225	-0132	33839		2724	14453	0334	00307	0824
0250	-0118	33930		2731	14465	0354	00356	0758
0300	-0052	34104		2743	14506	0390	00456	0652
0400	0024	34319		2756	14561	0450	00667	0530
0500	0048	34453		2766	14590	0499	00893	0444

C-REF-NO 362 YR 1962 DEPTH 348 WAVES 1 04X2 AIR T -03.3 VIS 6
 CONS. NO 031 MONTH 10 MXSAMPD 03 WAVES 2 0482 WET B STN 031
 LAT 74-290N DAY 03 NO.DPTH 11 WND-DIR 020 WW-CODE 02
 LON 84-000W HR 11.3 W-COLOR WND-SPD 06 CLD-TPE 0
 MARSD SQ 261 C/I 1810 W-TRNSP BARO 998. CLD-AMT 8 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
113	0000	-011	31360		2523	14391
113	0010	-0110	31481		2533	14394
113	0020	-0104	31591		2542	14400
113	0030	-0088	31661		2547	14411
113	0050	-0046	32250		2593	14442
113	0075	-0090	32894		2647	14434
113	0100	-0102	33162		2669	14437
113	0150	-0124	33539		2700	14440
113	0200	-0133	33857		2726	14448
113	0250	-0066	34074		2741	14491
113	0300	-0002	34232		2751	14531

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0110	31360		2523	14391	0000	00000	2745
0010	-0110	31481		2533	14394	0027	00001	2652
0020	-0104	31591		2542	14400	0053	00005	2568
0030	-0088	31661		2547	14411	0079	00012	2518
0050	-0046	32250		2593	14442	0125	00030	2079
0075	-0090	32894		2647	14434	0171	00059	1569
0100	-0102	33162		2669	14437	0208	00092	1358
0125	-0114	3337 B		2686	14438	0240	00129	1196
0150	-0124	33539		2700	14440	0269	00169	1060
0175	-0134 B	33708		2714	14442	0294	00210	0926
0200	-0133	33857		2726	14448	0316	00252	0811
0225	-0104 B	33976		2735	14468	0335	00294	0730
0250	-0066	34074		2741	14491	0353	00337	0670
0300	-0002	34232		2751	14531	0384	00426	0581

C-REF-NO 362	YR 1962	DEPTH 570	WAVES 1 04X1	AIR T -03.3	VIS 8
CONS. NO 032	MONTH 10	MXSAMPD 05	WAVES 2 X0	WET B	STN 032
LAT 74-290N	DAY 03	NO.DPTH 14	WND-DIR 340	WW-CODE 15	
LON 82-460W	HR 14.4	W-COLOR	WND-SPD 02	CLD-TPE 7	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 999.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
144	0000	-010	31200		2510	14394
144	0010	-0121	31269		2516	14386
144	0020	-0110	31316		2520	14394
144	0030	-0109	31333		2521	14396
144	0050	-0064	31773		2555	14427
144	0075	0116	33013		2646	14530
144	0085	0042	33112		2658	14499
144	0100	-0122	33255		2677	14429
144	0150	-0119	33706		2713	14445
144	0200	-0158	33867		2727	14437
144	0250	-0130	33965		2735	14460
144	0300	-0062	34097		2743	14502
144	0400	0005	34282		2755	14552
144	0500	0023	34390		2762	14578

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0100	31200		2510	14394	0000	00000	2871
0010	-0121	31269		2516	14386	0029	00001	2812
0020	-0110	31316		2520	14394	0057	00006	2777
0030	-0109	31333		2521	14396	0085	00013	2764
0050	-0064	31773		2555	14427	0137	00034	2438
0075	0116	33013		2646	14530	0187	00065	1577
0100	-0122	33255		2677	14429	0223	00097	1281
0125	-0155 I	3349 D		2697	14421	0253	00131	1089
0150	-0119	33706		2713	14445	0279	00167	0934
0175	-0140 B	3381 B		2722	14440	0301	00204	0847
0200	-0158	33867		2727	14437	0322	00244	0795
0225	-0151	33918		2731	14445	0341	00286	0757
0250	-0130	33965		2735	14460	0360	00332	0727
0300	-0062	34097		2743	14501	0395	00430	0653
0400	0005	34282		2755	14551	0456	00645	0546
0500	0023	34390		2762	14578	0507	00882	0475

C-REF-NO 362	YR 1962	DEPTH 703	WAVES 1 00X0	AIR T -02.2	VIS B
CONS. NO 033	MONTH 10	MXSAMPD 06	WAVES 2 X0	WET B	STN 033
LAT 74-220N	DAY 03	NO.DPTH 14	WND-DIR CALM	WW-CODE 03	
LON 82-420W	HR 17.0	W-COLOR	WND-SPD 00	CLD-TPE 7	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 999.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
170	0000	-010	31300		2518	14395
170	0010	-0109	31318		2520	14393
170	0020	-0104	31339		2521	14397
170	0030	-0096	31400		2526	14403
170	0050	-0038	31642		2544	14437
170	0075	-0084	32534		2617	14432
170	0100	-0065	32987		2653	14451
170	0150	-0084	33396		2687	14457
170	0200	-0125	33734		2716	14450
170	0250	-0067	34087		2742	14491
170	0300	-0010	34226		2751	14527
170	0400	0068	34396		2760	14582
170	0500	0076	34482		2767	14603
170	0600	0013	34486		2771	14591

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0100	31300		2518	14395	0000	00000	2794
0010	-0109	31318		2520	14393	0028	00001	2777
0020	-0104	31339		2521	14397	0056	00006	2761
0030	-0096	31400		2526	14403	0083	00013	2716
0050	-0038	31642		2544	14437	0136	00034	2547
0075	-0084	32534		2617	14432	0192	00069	1847
0100	-0065	32987		2653	14451	0234	00106	1506
0125	-0068	3324 E		2674	14457	0269	00147	1312
0150	-0084	33396		2687	14457	0301	00191	1183
0175	-0109 C	33569		2702	14451	0329	00237	1041
0200	-0125	33734		2716	14450	0353	00284	0907
0225	-0102 B	3392 B		2730	14468	0375	00330	0771
0250	-0067	34087		2742	14491	0393	00374	0659
0300	-0010	34226		2751	14527	0424	00462	0581
0400	0068	34396		2760	14582	0478	00656	0500
0500	0076	34482		2767	14603	0526	00875	0442
0600	0013	34486		2771	14591	0568	01113	0396

C-REF-NO 362	YR 1962	DEPTH 773	WAVES 1 09X1	AIR T -01.7	VIS 8
CONS. NO 034	MONTH 10	MXSAMPD 07	WAVES 2 XX	WET B	STN 034
LAT 74-15.0N	DAY 3	NO.DPTH 15	WND-DIR 090	WW-CODE 77	
LON 82-42.0W	HR 19.1	W-COLOR	WND-SPD 04	CLD-TPE 5	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1000.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
191	0000	-010	31300		2518	14395
191	0010	-0122	31315		2520	14386
191	0020	-0076	31565		2539	14413
191	0030	-0069	31749		2553	14421
191	0050	-0025	32221		2590	14451
191	0075	-0031	32669		2626	14459
191	0100	-0075 C	32953		2651	14446
191	0150	-0133	33270		2678	14432
191	0200	-0112	33641		2708	14455
191	0250	-0136	33836		2724	14455
191	0300	-0120	33962		2734	14473
191	0400	0006	34277		2754	14552
191	0500	0045	34413		2763	14588
191	0600	0046	34464		2767	14606
191	0725	-0010	34461		2770	14601

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0100	31300		2518	14395	0000	00000	2794
0010	-0122	31315		2520	14386	0028	00001	2776
0020	-0076	31565		2539	14413	0055	00006	2596
0030	-0069	31749		2553	14421	0080	00012	2456
0050	-0025	32221		2590	14451	0126	00031	2109
0075	-0031	32669		2626	14459	0175	00061	1763
0100	-0075 C	32953		2651	14446	0217	00098	1528
0125	-0111 B	3313 C		2666	14436	0253	00140	1379
0150	-0133	33270		2678	14432	0286	00187	1263
0175	-0125 C	3346 B		2694	14443	0316	00237	1116
0200	-0112	33641		2708	14455	0343	00287	0983
0225	-0124 B	33754		2717	14455	0367	00339	0891
0250	-0136	33836		2724	14455	0388	00391	0823
0300	-0120	33962		2734	14472	0427	00501	0730
0400	0006	34277		2754	14552	0492	00729	0551
0500	0045	34413		2763	14588	0544	00966	0473
0600	0046	34464		2767	14606	0590	01225	0435
0700	0006	34471		2770	14604	0632	01507	0402

C-REF-NO 362	YR 1962	DEPTH 735	WAVES 1 09X2	AIR T -02.8	VIS 8
CONS. NO 035	MONTH 10	MXSAMPD 07	WAVES 2 0982	WET 8	STN 035
LAT 74-080N	DAY 03	NO.DPTH 15	WND-DIR 090	WW-CODE 02	
LON 82-420W	HR 20.9	W-COLOR	WND-SPD 09	CLD-TPE 5	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1001.	CLD-AMT 8	HW

O B S E R V E D

	GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
	209	0000	-012	31130		2505	14383
	209	0010	-0115	31151		2506	14387
	209	0020	-0112	31158		2507	14391
	209	0030	-0112	31186		2509	14393
	209	0050	-0145	31991		2575	14392
	209	0075	-0118	32480		2614	14415
	209	0100	-0103	32816		2641	14431
	209	0150	-0124	33221		2674	14435
	209	0200	-0091	33528		2698	14463
	209	0250	-0148	33795		2721	14449
	209	0300	-0154	33886		2729	14456
	209	0400	-0012	34170		2746	14542
	209	0500	0030	34213		2748	14579
1	209	0650	0041	34444		2766	14612
1	209	0725	0002	34452		2768	14607

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0120	31130		2505	14383	0000	00000	2920
0010	-0115	31151		2506	14387	0029	00001	2904
0020	-0112	31158		2507	14391	0058	00006	2898
0030	-0112	31186		2509	14393	0088	00013	2876
0050	-0145	31991		2575	14392	0139	00034	2248
0075	-0118	32480		2614	14415	0191	00067	1877
0100	-0103	32816		2641	14431	0235	00106	1623
0125	-0113 C	3305 B		2660	14434	0274	00150	1441
0150	-0124	33221		2674	14435	0308	00199	1303
0175	-0105 C	33383		2687	14451	0340	00251	1184
0200	-0091	33528		2698	14463	0368	00305	1077
0225	-0117 C	33675		2711	14457	0394	00361	0954
0250	-0148	33795		2721	14449	0416	00416	0850
0300	-0154	33886		2729	14455	0457	00532	0775
0400	-0012	34170		2746	14542	0528	00781	0621
0500	0030	34213		2748	14578	0590	01069	0613
0600	0047	3437 D		2759	14605	0647	01386	0505
0700	0016	3443 C		2766	14608	0694	01703	0436

C-REF-NO 362	YR 1962	DEPTH 695	WAVES 1 06X2	AIR T -03.3	VIS 1
CONS. NO 036	MONTH 10	MXSAMPD 06	WAVES 2 0782	WET B	STN 036
LAT 74-010N	DAY 03	NO.DPTH 15	WND-DIR 070	WW-CODE 77	
LUN 82-420W	HR 22.9	W-COLOR	WND-SPD 10	CLD-TPE 6	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1001.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
229	0000		31170			
229	0010	-0117	31126		2505	14386
229	0020	-0114	31124		2504	14389
229	0030	-0090	31277		2516	14404
229	0050	-0087	31430		2528	14411
229	0075	-0070	32097		2582	14433
229	0100	-0116	32603		2624	14422
229	0150	-0112	33171		2670	14440
229	0200	-0098	33514		2697	14460
229	0250	-0150	33796		2721	14448
229	0300	-0140	33928		2732	14463
229	0400	-0020	34200		2749	14539
229	0500	0031	34367		2760	14581
229	0600	0040	34454		2766	14603
229	0650	0006	34452		2768	14596

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000		31170						
0010	-0117	31126		2505	14386	0029	00002	2923
0020	-0114	31124		2504	14389	0059	00006	2924
0030	-0090	31277		2516	14404	0087	00013	2812
0050	-0087	31430		2528	14411	0143	00036	2694
0075	-0070	32097		2582	14432	0204	00075	2186
0100	-0116	32603		2624	14422	0254	00119	1782
0125	-0123 C	3294 C		2651	14428	0296	00166	1522
0150	-0112	33171		2670	14440	0332	00217	1345
0175	-0102 B	3336 B		2685	14452	0364	00270	1203
0200	-0098	33514		2697	14460	0393	00326	1085
0225	-0124 C	33668		2710	14454	0419	00382	0957
0250	-0150	33796		2721	14448	0441	00437	0849
0300	-0140	33928		2732	14463	0482	00550	0748
0400	-0020	34200		2749	14539	0549	00790	0594
0500	0031	34367		2760	14581	0605	01042	0498
0600	0040	34454		2766	14603	0652	01308	0438

C-REF-NO 362 YR 1962 DEPTH 713 WAVES 1 06X2 AIR T -02.8 VIS 6
 CONS. NO 037 MONTH 10 MXSAMPD 06 WAVES 2 0782 WET B STN 037
 LAT 73-540N DAY 04 NO.DPTH 14 WND-DIR 080 WW-CODE 70
 LON 82-430W HR 01.2 W-COLUR WND-SPD 08 CLD-TPE 6
 MARSD SQ 261 C/I 1810 W-TRNSP BARO 1002. CLD-AMT 8 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
012	0000	-010	31200		2510	14394
012	0010	-0116	31183		2509	14387
012	0020	-0114	31194		2510	14390
012	0030	-0120	31268		2516	14390
012	0050	-0088	31471		2532	14411
012	0075	-0008	31878		2562	14458
012	0100	-0032	32542		2616	14461
012	0150	-0108	33133		2667	14442
012	0200	-0112	33495		2696	14453
012	0300	-0146	33912		2731	14460
012	0400	0012	34242		2751	14554
012	0500	0034	34387		2761	14583
012	0600	0041	34449		2766	14604
012	0650	0017	34453		2768	14601

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0100	31200		2510	14394	0000	00000	2871
0010	-0116	31183		2509	14387	0029	00001	2879
0020	-0114	31194		2510	14390	0058	00006	2870
0030	-0120	31268		2516	14390	0086	00013	2811
0050	-0088	31471		2532	14411	0141	00036	2662
0075	-0008	31878		2562	14458	0205	00076	2377
0100	-0032	32542		2616	14460	0258	00123	1859
0125	-0072 B	3291 F		2648	14451	0301	00172	1558
0150	-0108	33133		2667	14442	0338	00224	1376
0175	-0114 B	33335		2683	14446	0371	00278	1218
0200	-0112	33495		2696	14453	0400	00334	1095
0225	-0128 D	3362 B		2707	14452	0426	00391	0990
0250	-0139 E	3374 C		2716	14452	0450	00449	0899
0300	-0146	33912		2731	14460	0492	00566	0758
0400	0012	34242		2751	14554	0560	00805	0581
0500	0034	34387		2761	14583	0613	01051	0485
0600	0041	34449		2766	14603	0660	01315	0443

C-REF-NO 362	YR 1962	DEPTH 554	WAVES 1 05X2	AIR T -02.2	VIS 7
CONS. NO 038	MONTH 10	MXSAMPD 05	WAVES 2 0582	WET B	STN 038
LAT 73-480N	DAY 04	NO.DPTH 11	WND-DIR 050	WW-CODE 71	
LON 82-430W	HR 04.0	W-COLOR	WND-SPD 08	CLD-TPE 6	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1002.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
040	0000	-011	31230		2513	14389
040	0010	-0118	31200		2511	14387
040	0030	-0120	31195		2510	14389
040	0055	-0092	31576		2540	14412
040	0080	-0016	32139		2583	14459
040	0130	-0088	33019		2657	14446
040	0180	-0104	33378		2686	14452
040	0230	-0133	33728		2715	14452
040	0280	-0149	33889		2729	14455
040	0380	0028	34338		2758	14559
040	0480	0032	34438		2766	14579

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0110	31230		2513	14389	0000	00000	2845
0010	-0118	31200		2511	14387	0029	00001	2866
0020	-0122	3118 B		2509	14386	0058	00006	2883
0030	-0120	31195		2510	14389	0087	00013	2867
0050	-0101	3148 B		2532	14405	0142	00036	2655
0075	-0030 B	3202 B		2574	14450	0204	00075	2258
0100	-0030 G	3254 B		2616	14461	0256	00121	1860
0125	-0075 C	32950		2651	14450	0298	00169	1529
0150	-0097 B	3319 D		2671	14448	0334	00220	1332
0175	-0103	3335 B		2684	14451	0366	00273	1207
0200	-0116	3353 B		2699	14452	0395	00328	1067
0225	-0130	33697		2713	14452	0420	00383	0932
0250	-0144	3380 B		2722	14450	0443	00437	0847
0300	-0118 F	3399 C		2736	14474	0482	00548	0714
0400	-0026 I	3431 I		2758	14538	0544	00764	0509

C-REF-NO 362	YR 1962	DEPTH 622	WAVES 1 36X1	AIR T -02.2	VIS 4
CONS. NO 039	MONTH 10	MXSAMPD 06	WAVES 2 XX	WET 8	STN 039
LAT 73-480N	DAY 04	NO.DPTH 14	WND-DIR 360	WW-CODE 85	
LON 81-300W	HR 06.8	W-COLOR	WND-SPD 08	CLD-TPE 7	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1003.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
068	0000	-010	31170		2508	14393
068	0010	-0116	31215		2512	14388
068	0020	-0118	31217		2512	14389
068	0030	-0107	31418		2528	14398
068	0050	-0076	31649		2546	14419
068	0075	-0014	32164		2585	14459
068	0100	-0010	32704		2628	14473
068	0150	-0088	33435		2690	14455
068	0200	-0132	33736		2716	14447
068	0250	-0149	33919		2731	14450
068	0300	-0074	34088		2742	14496
068	0400	0073	34358		2757	14583
068	0500	0064	34463		2766	14597
068	0575	-0005	34456		2769	14579

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0100	31170		2508	14393	0000	00000	2894
0010	-0116	31215		2512	14388	0029	00001	2855
0020	-0118	31217		2512	14389	0058	00006	2852
0030	-0107	31418		2528	14398	0086	00013	2699
0050	-0076	31649		2546	14419	0138	00034	2529
0075	-0014	32164		2585	14459	0197	00072	2156
0100	-0010	32704		2628	14473	0246	00115	1745
0125	-0044 C	33125		2664	14467	0286	00160	1407
0150	-0088	33435		2690	14455	0318	00205	1152
0175	-0114	3362 C		2706	14450	0345	00250	1000
0200	-0132	33736		2716	14447	0369	00296	0903
0225	-0148 B	33836		2725	14445	0391	00344	0820
0250	-0149	33919		2731	14450	0411	00392	0755
0300	-0074	34088		2742	14496	0446	00492	0654
0400	0073	34358		2757	14583	0506	00704	0532
0500	0064	34463		2766	14597	0556	00931	0448

C-REF-NO 362	YR 1962	DEPTH 661	WAVES 1 02X2	AIR T -02.2	VIS
CONS. NO 040	MONTH 10	MXSAMPD 06	WAVES 2 0282	WET B	STN 040
LAT 73-540N	DAY 04	NO.DPTH 14	WND-DIR 020	WW-CODE 02	
LON 81-300W	HR 08.5	W-COLOR	WND-SPD 08	CLD-TPE	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1004.	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
085	0000	-010	31080		2500	14392
085	0010	-0116	31106		2503	14386
085	0019	-0116	31107		2503	14388
085	0028	-0115	31130		2505	14390
085	0046	-0116	31568		2540	14399
085	0069	-0004	32244		2591	14464
085	0092	-0006	32863		2641	14476
085	0138	-0079	33438		2690	14458
085	0185	-0139	33750		2717	14442
085	0232	-0156	33890		2729	14443
085	0279	-0091	34040		2739	14484
085	0376	0069	34415		2762	14578
085	0475	0075	34443		2764	14598
085	0575	0035	34446		2766	14597

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0100	31080		2500	14392	0000	00000	2963
0010	-0116	31106		2503	14386	0030	00002	2938
0020	-0116	31106		2503	14388	0059	00006	2938
0030	-0117	3116 B		2508	14390	0089	00014	2892
0050	-0097 C	31683		2549	14410	0143	00035	2497
0075	0002 B	32419		2605	14470	0199	00071	1969
0100	-0016 B	3300 C		2653	14474	0243	00109	1513
0125	-0054 B	3333 D		2681	14465	0277	00149	1244
0150	-0097	33539		2699	14452	0307	00190	1069
0175	-0129	33702		2713	14444	0332	00231	0932
0200	-0151	3380 B		2722	14439	0354	00274	0846
0225	-0157	33874		2728	14441	0375	00319	0788
0250	-0136 B	33946		2733	14456	0394	00366	0739
0300	-0051 C	3413 C		2745	14507	0429	00463	0631
0400	0080 B	3444 B		2763	14588	0485	00660	0476
0500	0089 E	3450 F		2768	14609	0531	00872	0435

C-REF-NO 362	YR 1962	DEPTH 739	WAVES 1 33X1	AIR T -02.2	VIS 8
CONS. NO 041	MONTH 10	MXSAMPD 07	WAVES 2 X0	WET 8	STN 041
LAT 74-010N	DAY 04	NO.DPTH 14	WND-DIR 330	WW-CODE 02	
LON 81-300W	HR 10.1	W-COLOR	WND-SPD 03	CLD-TPE 5	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1004.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
101	0000	-011	31170		2508	14388
101	0010	-0125	31137		2506	14383
101	0020	-0089	31557		2539	14407
101	0030	-0088	31648		2546	14410
101	0050	-0092	32000		2574	14417
101	0075	-0080	32759		2635	14437
101	0100	-0120	33052		2660	14427
101	0150	-0111	33425		2690	14444
101	0200	-0141	33764		2719	14443
101	0283	-0118	33957		2733	14471
101	0380	0034	34279		2753	14561
101	0479	0038	34389		2761	14581
101	0578	0047	34448		2766	14603
101	0677	0000	34446		2768	14598

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0110	31170		2508	14388	0000	00000	2892
0010	-0125	31137		2506	14383	0029	00002	2913
0020	-0089	31557		2539	14407	0057	00006	2598
0030	-0088	31648		2546	14410	0083	00012	2528
0050	-0092	32000		2574	14417	0131	00032	2255
0075	-0080	32759		2635	14437	0180	00063	1676
0100	-0120	33052		2660	14427	0219	00097	1437
0125	-0120 C	3326 B		2677	14433	0254	00137	1277
0150	-0111	33425		2690	14444	0284	00179	1151
0175	-0126 B	33607		2705	14444	0311	00225	1006
0200	-0141	33764		2719	14443	0335	00270	0879
0225	-0144	3384 D		2725	14447	0357	00317	0817
0250	-0138	3390 D		2730	14455	0377	00365	0771
0300	-0091 D	3402 B		2737	14487	0414	00470	0700
0400	0041 B	34312		2755	14568	0477	00692	0546
0500	0042	34406		2763	14587	0528	00929	0476
0600	0031 C	34451		2767	14599	0574	01188	0434

C-REF-NO 362	YR 1962	DEPTH 786	WAVES 1 33X1	AIR T -02.2	VIS 8
CONS. NO 042	MONTH 10	MXSAMPD 07	WAVES 2 X0	WET B	STN 042
LAT 74-080N	DAY 04	NO.DPTH 15	WND-DIR 330	WW-CODE 02	
LON 81-290W	HR 12.4	W-COLOR	WND-SPD 05	CLD-TPE 5	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1006.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
124	0000	-010	31340		2521	14396
124	0009	-0118	31360		2523	14389
124	0019	-0100	31485		2533	14401
124	0028	-0106	31640		2546	14402
124	0046	-0046	32534		2616	14445
124	0069	-0058	32976		2652	14449
124	0093	-0046	33224		2672	14462
124	0139	-0120	33731		2715	14443
124	0186	-0142	33857		2726	14442
124	0232	-0134	33947		2733	14455
124	0274	-0074	34056		2740	14491
124	0366	0018	34253		2752	14551
124	0459	0038	34385		2761	14578
124	0555	0059	34457		2766	14604
124	0653	0016	34450		2767	14601

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EV	SVA
0000	-0100	31340		2521	14396	0000	00000	2763
0010	-0117	31369		2524	14390	0028	00001	2736
0020	-0101	31496		2534	14401	0055	00006	2641
0030	-0100 B	3173 D		2553	14406	0080	00012	2460
0050	-0045 B	3265 C		2625	14448	0123	00029	1776
0075	-0055	3305 B		2658	14453	0164	00055	1464
0100	-0055 B	3331 B		2679	14461	0198	00085	1261
0125	-0093 C	3360 C		2703	14451	0227	00118	1029
0150	-0129	3378 B		2719	14441	0251	00152	0874
0175	-0141	3385 B		2725	14440	0272	00187	0817
0200	-0144	33885		2728	14443	0293	00226	0786
0225	-0138	33933		2732	14451	0312	00268	0749
0250	-0111	33993		2736	14469	0330	00313	0713
0300	-0042	34118		2744	14511	0365	00410	0647
0400	0030 B	34309		2755	14563	0425	00622	0541
0500	0051 B	34425		2763	14591	0476	00856	0468
0600	0038 B	34462		2767	14602	0521	01112	0431

C-REF-NO 362	YR 1962	DEPTH 805	WAVES 1 30X2	AIR T -02.8	VIS 8
CONS. NO 043	MONTH 10	MXSAMPD 06	WAVES 2 3082	WET 8	STN 043
LAT 74-150N	DAY 04	NO.DPTH 15	WND-DIR 300	WW-CODE 02	
LON 81-280W	HR 15.0	W-COLOR	WND-SPD 10	CLD-TPE 6	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1007.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
150	0000	-009	32200		2591	14412
150	0010	-0106	32207		2592	14406
150	0020	-0093	32531		2617	14419
150	0029	-0052	32819		2639	14443
150	0049	-0013	32992		2651	14467
150	0074	0020	33252		2671	14490
150	0098	-0087	33644		2707	14450
150	0147	-0161	33861		2727	14427
150	0196	-0146	33928		2732	14443
150	0245	-0063	34062		2740	14491
150	0247	-0071	34069		2741	14488
150	0328	0046	34281		2752	14558
150	0415	0063	34372		2759	14582
150	0504	0074	34443		2764	14602
150	0645	0044	34461		2767	14613

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0090	32200		2591	14412	0000	00000	2106
0010	-0106	32207		2592	14406	0021	00001	2095
0020	-0093	32531		2617	14419	0041	00004	1849
0030	-0049	32835		2640	14445	0059	00009	1631
0050	-0010	33000		2652	14469	0090	00021	1520
0075	0016	33269		2672	14489	0126	00044	1327
0100	-0093	33662		2709	14448	0155	00070	0979
0125	-0145 B	3382 E		2723	14430	0178	00096	0838
0150	-0162	33866		2727	14426	0199	00125	0797
0175	-0162	3390 B		2731	14431	0218	00158	0767
0200	-0139	33' 39		2733	14447	0237	00194	0746
0225	-0099	34008		2737	14470	0256	00234	0707
0250	-0061 B	34076		2741	14493	0273	00277	0670
0300	0010 B	34209		2748	14536	0305	00367	0605
0400	0064 B	34362		2758	14579	0362	00570	0523
0500	0074	34441		2763	14601	0413	00801	0472
0600	0057	34463		2766	14611	0459	01062	0443

C-REF-NO 362	YR 1962	DEPTH 732	WAVES 1 X0	AIR T -02.8	VIS 9
CONS. NO 044	MONTH 10	MXSAMPD 07	WAVES 2 X0	WET B	STN 044
LAT 74-220N	DAY 04	NO.DPTH 15	WND-DIR 290	WW-CODE 03	
LON 81-300W	HR 17.4	W-COLOR	WND-SPD 03	CLD-TPE 5	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1008.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
174	0000	-011	31250		2514	14390
174	0010	-0127	31230		2513	14383
174	0020	-0125	31376		2525	14388
174	0030	-0120				
174	0050	-0101				
174	0075	-0103	31942		2570	14415
174	0100	-0080	32393		2606	14436
174	0149	-0030	33393		2685	14481
174	0199	-0123	33833		2724	14453
174	0250	-0142	33933		2732	14454
174	0300	-0048	34081		2741	14508
174	0400	0033	34345		2758	14565
174	0500	0071	34450		2764	14600
174	0600	0047	34473		2768	14607
174	0675	-0004	34458		2769	14596

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EV	SVA
0000	-0110	31250		2514	14390	0000	00000	2830
0010	-0127	31230		2513	14383	0029	00001	2841
0020	-0125	31376		2525	14388	0057	00006	2728
0030	-0120	3137 I		2525	14392	0084	00013	2729
0050	-0101	3157 I		2540	14407	0137	00035	2582
0075	-0103	31942		2570	14415	0199	00073	2294
0100	-0080	32393		2606	14436	0252	00121	1954
0125	-0046 C	3293 F		2648	14463	0296	00171	1556
0150	-0032	33406		2686	14481	0331	00220	1197
0175	-0074 E	3368 B		2709	14469	0358	00265	0970
0200	-0124	33836		2724	14452	0381	00308	0829
0225	-0145	3390 C		2730	14448	0401	00352	0770
0250	-0142	33933		2732	14453	0420	00399	0747
0300	-0048	34081		2741	14508	0456	00499	0672
0400	0033	34345		2758	14565	0516	00711	0516
0500	0071	34450		2764	14600	0566	00938	0463
0600	0047	34473		2768	14606	0611	01192	0429

C-REF-NO 362	YR 1962	DEPTH 640	WAVES 1	XO	AIR T -03.3	VIS 8
CONS. NO 045	MONTH 10	MXSAMPD 06	WAVES 2	XO	WET B	STN 045
LAT 74-290N	DAY 04	NO.DPTH 14	WND-DIR 030	WW-CODE 02		
LON 81-250W	HR 20.0	W-COLOR	WND-SPD 02	CLD-TPE 5		
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1014.	CLD-AMT 4	HW	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
200	0000	-012	31250		2515	14385
200	0010	-0124	31245		2514	14385
200	0020	-0124	31247		2514	14386
200	0030	-0113	31392		2526	14395
200	0049	-0067	31759		2554	14425
200	0073	-0043	32746		2633	14454
200	0097	-0038	33055		2658	14464
200	0145	-0103	33660		2709	14451
200	0194	-0125	33799		2721	14450
200	0243	-0113	34006		2737	14467
200	0292	-0066	34112		2744	14499
200	0392	-0031	34254		2754	14533
200	0491	-0022	34311		2758	14555
200	0591	-0004	34373		2762	14581

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0120	31250		2515	14385	0000	00000	2828
0010	-0124	31245		2514	14385	0028	00001	2830
0020	-0124	31247		2514	14386	0057	00006	2827
0030	-0113	31392		2526	14395	0085	00013	2717
0050	-0065	3180 B		2558	14426	0136	00034	2416
0075	-0042	3279 B		2636	14455	0188	00066	1670
0100	-0041	33100		2661	14464	0227	00100	1429
0125	-0072 C	3344 D		2690	14458	0259	00137	1157
0150	-0107	3368 B		2711	14450	0286	00175	0955
0175	-0121	3377 D		2718	14449	0309	00213	0883
0200	-0125	33825		2723	14451	0331	00255	0838
0225	-0121	339 B		2732	14459	0351	00299	0756
0250	-0107	34025		2739	14471	0369	00343	0690
0300	-0061	34127		2745	14502	0403	00437	0630
0400	-0030	34260		2754	14535	0462	00647	0543
0500	-0015 B	3433 B		2760	14560	0514	00889	0496
0600	-0003	34375		2762	14582	0563	01164	0469

C-REF-NO 362	YR 1962	DEPTH 600	WAVES 1 XX	AIR T -06.7	VIS 8
CONS. NO 046	MONTH 10	MXSAMPD 05	WAVES 2 XX	WET B	STN 046
LAT 75-260N	DAY 05	NO.DPTH 14	WND-DIR 350	WW-CODE 02	
LON 79-220W	HR 11.8	W-COLOR	WND-SPD 08	CLD-TPE 6	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 1008.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
118	0000	-015	31340		2523	14372
118	0010	-0164	31325		2522	14367
118	0019	-0143	31460		2532	14380
118	0029	-0116	31660		2548	14397
118	0048	-0088	32163		2587	14421
118	0073	-0075	32925		2649	14441
118	0097	-0078	33246		2675	14449
118	0145	-0086	33553		2700	14457
118	0194	-0098	33480		2694	14459
118	0242	-0118	33980		2735	14464
118	0258	-0106	34018		2738	14473
118	0351	-0038	34216		2751	14523
118	0447	-0019	34340		2760	14549
118	0495	-0013	34378		2763	14560

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0150	31340		2523	14372	0000	00000	2752
0010	-0164	31325		2522	14367	0028	00001	2760
0020	-0140	31478		2533	14382	0055	00006	2646
0030	-0114	31684		2550	14399	0081	00012	2493
0050	-0086	3223 B		2593	14423	0127	00031	2081
0075	-0075	32962		2652	14442	0172	00059	1523
0100	-0078	33277		2677	14449	0207	00090	1279
0125	-0082	33475		2693	14454	0238	00125	1125
0150	-0087	3354 C		2699	14457	0265	00164	1071
0175	-0093	3350 H		2695	14458	0293	00210	1102
0200	-0103	3354 D		2699	14458	0320	00262	1062
0225	-0115 B	3380 I		2721	14460	0344	00314	0856
0250	-0113	34003		2737	14468	0364	00362	0704
0300	-0092 B	3423 E		2754	14489	0395	00450	0540
0400	-0024	34288		2756	14538	0449	00643	0524

C-REF-NO 362 YR 1962 DEPTH 292 WAVES 1 32X1 AIR T -05.6 VIS 8
 CONS. NO 047 MONTH 10 MXSAMPD 02 WAVES 2 XX WET B STN 047
 LAT 75-430N DAY 05 NO.DPTH 10 WND-DIR 320 WW-CODE 02
 LON 77-000W HR 18.4 W-COLOR WND-SPD 05 CLD-TPE 4
 MARSD SQ 260 C/I 1810 W-TRNSP BARO 1008. CLD-AMT 6 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
184	0000	-016	32230		2595	14380
184	0010	-0128	32253		2596	14397
184	0020	-0076	32416		2608	14425
184	0030	-0051	32751		2634	14443
184	0050	-0031	33119		2663	14461
184	0075	-0094	33486		2695	14441
184	0100	-0115	33701		2713	14438
184	0150	-0150	33900		2730	14433
184	0200	-0092	34029		2738	14470
184	0250	-0052	34183		2749	14499

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0160	32230		2595	14380	0000	00000	2065
0010	-0128	32253		2596	14397	0021	00001	2054
0020	-0076	32416		2608	14425	0041	00004	1943
0030	-0051	32751		2634	14443	0059	00009	1695
0050	-0031	33119		2663	14461	0091	00021	1421
0075	-0094	33486		2695	14441	0122	00041	1114
0100	-0115	33701		2713	14438	0148	00064	0941
0125	-0139 B	3382 B		2723	14433	0171	00090	0838
0150	-0150	33900		2730	14433	0191	00119	0775
0175	-0126 B	33967		2735	14449	0210	00150	0730
0200	-0092	34029		2738	14470	0228	00185	0695
0225	-0086 D	34117		2745	14478	0245	00221	0629
0250	-0052	34183		2749	14499	0260	00259	0593

C-REF-NO 362	YR 1962	DEPTH 402	WAVES 1 34X1	AIR T -06.7	VIS 8
CONS. NO 048	MONTH 10	MXSAMPD 04	WAVES 2 82	WET B	STN 048
LAT 76-000N	DAY 06	NO.DPTH 12	WND-DIR 340	WW-CODE 02	
LON 74-000W	HR 01.2	W-COLOR	WND-SPD 04	CLD-TPE 5	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 1008.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
012	0000		32550	811		
012	0010	-0086	32370	800	2604	14418
012	0020	-0061	32642	784	2625	14435
012	0030	-0064	32782	778	2637	14437
012	0050	-0034	33175	749	2667	14460
012	0075	-0098	33533	721	2699	14440
012	0100	-0120	33750	710	2717	14436
012	0150		33955	665		
012	0200	-0068	34120	637	2745	14482
012	0250	-0054	34242	653	2754	14499
012	0300	-0047	34327	648	2761	14512
012	0360	-0039	34393	648	2766	14526

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000		32550	811					
0010	-0086	32370	800	2604	14418	0019	00001	1976
0020	-0061	32642	784	2625	14435	0038	00004	1775
0030	-0064	32782	778	2637	14437	0055	00008	1666
0050	-0034	33175	749	2667	14460	0086	00021	1376
0075	-0098	33533	721	2699	14440	0117	00040	1077
0100	-0120	33750	710	2717	14436	0142	00062	0902
0125	-0116 D	3387 B	688 B	2727	14444	0163	00087	0807
0150	-0106 E	33955	665	2733	14454	0183	00114	0748
0175	-0090 D	34043	647	2739	14467	0201	00144	0686
0200	-0068	34120	637	2745	14482	0218	00176	0636
0225	-0060	34186	644 C	2750	14491	0233	00210	0588
0250	-0054	34242	653	2754	14499	0248	00245	0548
0300	-0047	34327	648	2761	14512	0274	00318	0485

C-REF-NO 362 YR 1962 DEPTH 681 WAVES 1 33X1 AIR T -04.4 VIS 8
 CONS. NO 049 MONTH 10 MXSAMPD 06 WAVES 2 XX WET B STN 049
 LAT 76-150N DAY 06 NO.DPTH 14 WND-DIR 330 WW-CODE 03
 LON 70-420W HR 08.4 W-COLOR WND-SPD 06 CLD-TPE 6
 MARSD SQ 260 C/I 1810 W-TRNSP BARO 1008. CLD-AMT 8 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
084	0000	-010	32060		2580	14406
084	0010	-0068	32033		2576	14422
084	0020	-0026	32609		2621	14451
084	0030	-0018	33006		2653	14462
084	0050	-0117	33512		2697	14426
084	0075	-0152	33729		2716	14417
084	0100	-0144	33812		2723	14426
084	0150		33905			
084	0200	-0096	34015		2737	14468
084	0250	-0050	34169		2748	14500
084	0300	-0047	34269		2756	14511
084	0400	-0012	34416		2766	14546
084	0500	-0031	34451		2770	14554
084	0600	-0028	34474		2772	14572

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0100	32060		2580	14406	0000	00000	2210
0010	-0068	32033		2576	14422	0022	00001	2240
0020	-0026	32609		2621	14451	0043	00004	1814
0030	-0018	33006		2653	14462	0060	00008	1513
0050	-0117	33512		2697	14426	0086	00019	1088
0075	-0152	33729		2716	14417	0111	00035	0910
0100	-0144	33812		2723	14426	0133	00054	0847
0125	-0136	33864		2726	14435	0154	00078	0809
0150	-0125	33905		2730	14444	0174	00107	0779
0175	-0112	33956		2733	14456	0193	00139	0744
0200	-0096	34015		2737	14468	0211	00174	0704
0225	-0071	34013		2743	14485	0229	00211	0654
0250	-0050	34169		2748	14500	0244	00250	0605
0300	-0047	34269		2756	14511	0273	00330	0529
0400	-0012	34416		2766	14546	0322	00503	0435
0500	-0031	34451		2770	14554	0364	00696	0396
0600	-0028	34474		2772	14572	0403	00917	0379

C-REF-NO 362 YR 1962 DEPTH 539 WAVES 1 00X0 AIR T 01.1 VIS 7
 CONS. NO 050 MONTH 10 MXSAMPD 05 WAVES 2 XO WET B STN 050
 LAT 75-040N DAY 06 NO.DPTH 13 WND-DIR CALM WW-000E 77
 LON 75-050W HR 18.3 W-COLOR WND-SPD 00 CLD-TPE 7
 MARSD SQ 260 C/I 1810 W-TRNSP BARO 1009. CLD-AMT 8 HW

OBSERVED

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
183	0000	-0003	32860	800	2642	14449
183	0010	-0023	32863	781	2642	14454
183	0020	-0026	32863	778	2642	14455
183	0030	-0010	32880	789	2642	14464
183	0050	-0122	33470	699	2694	14423
183	0075	-0147	33675	699	2712	14419
183	0100	-0157	33590	688	2705	14417
183	0150	-0149	33889	670	2729	14433
183	0200	-0098	33993	625	2736	14467
183	0250	-0011	34182	558	2747	14518
183	0300	0002	34263	592	2753	14533
183	0400		34434	552		
183	0500	-0012		603		

INTERPOLATED

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0030	32860	800	2642	14449	0000	00000	1621
0010	-0023	32863	781	2642	14454	0016	00001	1621
0020	-0026	32863	778	2642	14455	0033	00003	1619
0030	-0010	32880	789	2642	14464	0049	00008	1613
0050	-0122	33470	699	2694	14423	0076	00018	1119
0075	-0147	33675	699	2712	14419	0103	00035	0953
0100	-0157	33590	688	2705	14417	0127	00057	1014
0125	-0158	3371 G	680	2715	14422	0152	00085	0918
0150	-0149	33889	670	2729	14433	0173	00115	0784
0175	-0122	3395 B	651	2733	14448	0192	00147	0744
0200	-0098	33993	625	2736	14467	0211	00183	0720
0225	-0052	3409 B	587 E	2742	14493	0228	00221	0666
0250	-0011	34182	558	2747	14518	0244	00260	0615
0300	0002	34263	592	2753	14533	0274	00344	0560
0400	0054	34434	552	2764	14575	0326	00527	0462
0500	-0012		603					

C-REF-NO 362	YR 1962	DEPTH 997	WAVES 1 27X2	AIR T -04.4	VIS 4
CONS. NO 051	MONTH 10	MXSAMPD 09	WAVES 2 XX	WET B	STN 051
LAT 73-340N	DAY 07	NO.DPTH 16	WVD-DIR 270	WW-CODE 86	
LON 76-450W	HR 06.2	W-COLOR	WVD-SPD 13	CLD-TPE 7	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 1008.	CLD-AMT 8	HW

O B S E R V E D

	GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
	062	0000	-010	31490	710	2533	14398
	062	0010	-0053	31550	778	2537	14422
	062	0019	-0048	31626	800	2543	14427
	062	0029	-0030	31632	789	2543	14437
	062	0048	0005	32265	772	2592	14465
	062	0072	-0053	32648		2625	14448
	062	0096	-0111	32889	614	2647	14428
	062	0143	-0125	33272		2678	14435
	062	0191	-0127	33551	609	2701	14445
	062	0239	-0143	33762		2718	14449
	062	0290	-0146	33872	626	2727	14457
	062	0387	-0027	34154		2746	14533
	062	0486	0038	34223	552	2748	14580
	062	0585	0060	34413		2762	14609
	062	0785	0016	34446	542	2767	14623
3	062	0935	-0007	34376	564	2763	14637

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0100	31490	710	2533	14398	0000	00000	2648
0010	-0053	31550	778	2537	14422	0026	00001	2615
0020	-0047	31623	800	2543	14428	0053	00005	2561
0030	-0027	3166 B	788	2545	14439	0078	00012	2540
0050	0002	32309	766 B	2596	14465	0124	00030	2054
0075	-0061	32683	687 I	2629	14445	0172	00060	1741
0100	-0115	32926	609 C	2650	14427	0213	00097	1535
0125	-0128 C	33139	590 I	2668	14428	0250	00139	1366
0150	-0125	33318	585 I	2682	14436	0283	00185	1228
0175	-0126	33458	595 I	2694	14442	0312	00234	1112
0200	-0130	33597	611	2705	14446	0339	00285	1010
0225	-0138	33709	616 B	2714	14448	0363	00338	0920
0250	-0146	33790	620 B	2721	14449	0386	00393	0855
0300	-0136 B	33904	623 B	2730	14464	0427	00508	0768
0400	-0016	3417 B	590 H	2746	14540	0497	00757	0622
0500	0043	34250	549	2750	14585	0558	01040	0595
0600	0058	34426	537 B	2763	14611	0612	01342	0473
0700	0041 C	3447 C	535 B	2768	14620	0658	01645	0428
0800	0030 E	3448 E	539 C	2769	14632	0700	01972	0410

C-REF-NO 362	YR 1962	DEPTH 777	WAVES 1 XX	AIR T -02.2	VIS 2
CONS. NO 052	MONTH 10	MXSAMPD 07	WAVES 2 0642	WET B	STN 052
LAT 74-065N	DAY 07	NO.DPTH 15	WND-DIR 060	WW-CODE 71	
LUN 74-160W	HR 12.4	W-COLOR	WND-SPD 03	CLD-TPE 7	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 1008.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
124	0000	-015	31960		2573	14381
124	0010	-0046	32839		2641	14443
124	0020	-0026	32600		2620	14451
124	0030	-0016	33052		2656	14463
124	0050	-0108	33016		2657	14424
124	0075	-0127	33470		2694	14425
124	0100	-0138	33598		2705	14426
124	0150	-0152	33766		2719	14430
124	0200	-0140	33905		2730	14446
124	0250	-0079	34017		2737	14484
124	0300	-0002	34170		2746	14530
124	0400	0054	34355		2758	14575
124	0500	0064	34430		2763	14597
124	0600	0055	34456		2766	14610
124	0700	-0005	34454		2769	14599

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0150	31960		2573	14381	0000	00000	2275
0010	-0046	32839		2641	14443	0020	00001	1630
0020	-0026	32600		2620	14451	0037	00004	1821
0030	-0016	33052		2656	14463	0054	00008	1479
0050	-0108	33016		2657	14423	0083	00020	1471
0075	-0127	33470		2694	14425	0116	00040	1116
0100	-0138	33598		2705	14426	0143	00064	1013
0125	-0147	33691		2713	14427	0167	00092	0937
0150	-0152	33766		2719	14430	0190	00125	0877
0175	-0151	33839		2725	14436	0212	00160	0820
0200	-0140	33905		2730	14446	0232	00199	0772
0225	-0114	33960		2734	14463	0251	00240	0738
0250	-0079	34017		2737	14484	0269	00285	0707
0300	-0002	34170		2746	14530	0303	00380	0628
0400	0054	34355		2758	14575	0361	00586	0522
0500	0064	34430		2763	14597	0411	00817	0473
0600	0055	34456		2766	14610	0457	01079	0448
0700	-0005	34454		2769	14599	0501	01367	0407

C-REF-NO 362	YR 1962	DEPTH 844	WAVES 1 33X1	AIR T -03.3	VIS 8
CONS. NO 053	MONTH 10	MXSAMPD 08	WAVES 2 X0	WET B	STN 053
LAT 75-000N	DAY 07	NO.DPTH 15	WND-DIR 330	WW-CODE 28	
LON 70-040W	HR 23.2	W-COLOR	WND-SPD 05	CLD-TPE 5	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 1008.	CLD-AMT 8	HW

O B S E R V E D

	GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
	232	0000	-006	33010		2655	14438
	232	0010	-0078	33040		2658	14431
	232	0020	-0082	33075		2661	14432
	232	0030	-0144	33449		2693	14409
	232	0050	-0162	33548		2702	14406
	232	0075	-0160	33654		2710	14412
	232	0100	-0165	33734		2717	14415
	232	0150	-0159	33828		2724	14428
	232	0200	-0158	33972		2736	14438
	232	0250	-0004	34091		2740	14520
2	232	0300	-0054	34198		2751	14507
	232	0395	0128	34401		2757	14608
	232	0493	0135	34476		2762	14628
1	232	0591	0130 C	34490		2764	14643
1	232	0764		34501			

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0060	33010		2655	14438	0000	00000	1495
0010	-0078	33040		2658	14431	0015	00001	1465
0020	-0082	33075		2661	14432	0030	00003	1436
0030	-0144	33449		2693	14409	0042	00006	1130
0050	-0162	33548		2702	14406	0064	00015	1048
0075	-0160	33654		2710	14412	0090	00031	0965
0100	-0165	33734		2717	14415	0113	00052	0901
0125	-0163	33783		2721	14421	0135	00078	0862
0150	-0159	33828		2724	14427	0157	00108	0827
0175	-0168 C	33898		2730	14428	0177	00142	0769
0200	-0158	33972		2736	14438	0196	00177	0714
0225	-0078 G	34034		2738	14481	0213	00216	0696
0250	-0004	34091		2740	14520	0231	00259	0688
0300	-0054	34198		2751	14507	0263	00349	0580
0400	0131	34407		2757	14610	0319	00550	0537
0500	0164 I	34478		2760	14642	0372	00795	0513
0600		3451 B						
0700		34512						

C-REF-NO 362	YR 1962	DEPTH 310	WAVES 1 27X1	AIR T -03.3	VIS 6
CONS. NO 054	MONTH 10	MXSAMPD 03	WAVES 2 2742	WET B	STN 054
LAT 75-370N	DAY 08	NO.DPTH 11	WND-DIR 290	WW-CODE 85	
LON 67-400W	HR 07.8	W-COLOR	WND-SPD 04	CLD-TPE	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 1008.	CLD-AMT	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
078	0000	-008	32030		2576	14415
078	0010	-0058	32201		2590	14429
078	0020	0033	33144		2661	14486
078	0030	0006	33342		2679	14478
078	0050	-0068	33655		2707	14451
078	0075	-0117	33726		2715	14433
078	0100	-0132	33795		2721	14431
078	0150	-0085	33902		2728	14463
078	0200	-0044	33990		2733	14492
078	0250	0017	34116		2741	14530
078	0275	0045	34194		2745	14548

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
0000	-0080	32030		2576	14415	0000	00000	2239
0010	-0058	32201		2590	14429	0022	00001	2115
0020	0033	33144		2661	14486	0040	00004	1432
0030	0006	33342		2679	14478	0053	00007	1267
0050	-0068	33655		2707	14451	0076	00016	0996
0075	-0117	33726		2715	14433	0100	00032	0923
0100	-0132	33795		2721	14431	0123	00052	0864
0125	-0115	33852		2725	14445	0144	00076	0825
0150	-0085	33902		2728	14463	0165	00105	0796
0175	-0065	33945		2731	14477	0184	00138	0771
0200	-0044	33990		2733	14492	0203	00175	0745
0225	-0014	34048		2737	14510	0222	00215	0715
0250	0017	34116		2741	14530	0239	00258	0680

C-REF-NO 362	YR 1962	DEPTH 177	WAVES 1 26X2	AIR T -02.8	VIS 7
CONS. NO 055	MONTH 10	MXSAMPD 01	WAVES 2 2682	WET B	STN 055
LAT 74-590N	DAY 08	NO.DPTH 8	WND-DIR 270	WW-CODE 02	
LON 63-580W	HR 17.0	W-COLOR	WND-SPD 05	CLD-TPE 6	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 1010.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
170	0000	-003	33060		2658	14452
170	0010	-0051	33108		2662	14445
170	0020	-0046	33124		2664	14449
170	0030	-0081	33668		2709	14442
170	0050	-0122	33821		2723	14428
170	0075	-0108	33892		2728	14440
170	0099	-0082	33936		2731	14457
170	0149	-0055	33993		2734	14478

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0030	33060		2658	14452	0000	00000	1468
0010	-0051	33108		2662	14445	0015	00001	1423
0020	-0046	33124		2664	14449	0029	00003	1412
0030	-0081	33668		2709	14442	0041	00006	0982
0050	-0122	33821		2723	14428	0059	00013	0850
0075	-0108	33892		2728	14440	0080	00027	0799
0100	-0087 B	33941		2731	14455	0100	00044	0768
0125	-0070 B	33976		2733	14467	0119	00066	0747
*0150	-0054	33993		2734	14479	0138	00093	0740

C-REF-NO 362	YR 1962	DEPTH 109	WAVES 1	X0	AIR T -01.7	VIS 2
CONS. NO 056	MONTH 10	MXSAMPD 01	WAVES 2	XX	WET B	STN 056
LAT 75-000N	DAY 09	NO.DPTH 7	WND-DIR 060		WW-CODE 11	
LON 59-370W	HR 00.0	W-COLOR	WND-SPD 01		CLD-TPE	
MARSD SQ 258	C/I 1810	W-TRNSP	BARO 1010.		CLD-AMT 9	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
000	0000	007	32440		2603	14489
000	0010	0106	32609		2614	14510
000	0020	0116	32751		2625	14518
000	0030	0046	33419		2683	14497
000	0050	-0082	33670		2709	14445
000	0075	-0113	33741		2716	14435
000	0100	-0084	33837		2723	14455

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0070	32440		2603	14489	0000	00000	1988
0010	0106	32609		2614	14510	0019	00001	1879
0020	0116	32751		2625	14518	0038	00004	1776
0030	0046	33419		2683	14497	0053	00008	1229
0050	-0082	33670		2709	14445	0075	00016	0979
0075	-0113	33741		2716	14435	0099	00032	0913
0100	-0084	33837		2723	14454	0121	00051	0849

C-REF-NO 362 YR 1962 DEPTH 759 WAVES 1 X1 AIR T -01.7 VIS 6
 CONS. NO 057 MONTH 10 MXSAMPD 06 WAVES 2 2742 WET B STN 057
 LAT 74-300N DAY 09 NO.DPTH 15 WND-DIR WW-CODE 70
 LON 60-200W HR 04.3 W-COLOR WND-SPD 01 CLD-TPE 5
 MARSD SQ 259 C/I 1810 W-TRNSP BARD 1010. CLD-AMT 8 HW

O B S E R V E D

	GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
	043	0000	002	33030		2653	14475
	043	0010	0011	33062		2656	14473
	043	0020	0010	33058		2656	14474
	043	0030	0008	33183		2666	14476
	043	0050	-0151	33756		2718	14414
	043	0075	-0160	33800		2722	14414
	043	0100	-0160	33819		2724	14419
	043	0150	-0148	33847		2725	14433
	043	0200	-0080	33962		2733	14475
	043	0250	-0037	34025		2736	14504
	043	0300	0015	34112		2740	14537
	043	0400	0106	34350		2754	14598
	043	0500	0118	34432		2760	14621
3	043	0514	0118	34486		2764	14624
	043	0608	0126	34496		2764	14644

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0020	33030		2653	14475	0000	00000	1513
0010	0011	33062		2656	14473	0015	00001	1484
0020	0010	33058		2656	14474	0030	00003	1486
0030	0008	33183		2666	14476	0045	00007	1390
0050	-0151	33756		2718	14414	0068	00016	0891
0075	-0160	33800		2722	14414	0089	00030	0853
0100	-0160	33819		2724	14419	0111	00049	0837
0125	-0159	33828		2724	14424	0132	00073	0829
0150	-0148	33847		2725	14433	0153	00102	0816
0175	-0116 B	33902		2729	14453	0173	00136	0783
0200	-0080	33962		2733	14475	0192	00173	0751
0225	-0058	33995		2734	14490	0211	00214	0734
0250	-0037	34025		2736	14504	0229	00259	0721
0300	0015	34112		2740	14537	0265	00359	0682
0400	0106	34350		2754	14598	0327	00581	0562
0500	0118	34432		2760	14621	0381	00831	0511
0600	0125	34495		2764	14642	0431	01111	0472

C-REF-NO 362	YR 1962	DEPTH	545	WAVES 1 29X2	AIR T -03.3	VIS 8
CONS. NO 058	MONTH 10	MXSAMPD	05	WAVES 2 2982	WET B	STN 058
LAT 73-300N	DAY 09	NO.DPTH	13	WND-DIR 290	WW-CODE 15	
LON 63-000W	HR 14.6	W-COLOR		WND-SPD 08	CLD-TPE 5	
MARSD SQ 259	C/I 1810	W-TRNSP		BARO 1009.	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
146	0000	002	32360		2599	14465
146	0010	0012	32338		2598	14463
146	0020	0016	32335		2597	14467
146	0030	0032	32399		2602	14476
146	0050	-0152	33175		2671	14405
146	0075	-0159	33413		2691	14409
146	0100	-0160	33588		2705	14415
146	0150	-0160	33758		2719	14426
146	0200	-0128	33840		2724	14451
146	0250	-0072	33947		2731	14486
146	0300	0036	34142		2742	14547
146	0400	0130	34383		2755	14609
146	0500	0142	34478		2762	14633

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0020	32360		2599	14465	0000	00000	2025
0010	0012	32338		2598	14463	0020	00001	2037
0020	0016	32335		2597	14467	0041	00004	2041
0030	0032	32399		2602	14476	0061	00009	1999
0050	-0152	33175		2671	14405	0095	00023	1337
0075	-0159	33413		2691	14409	0126	00042	1151
0100	-0160	33588		2705	14415	0154	00067	1014
0125	-0162	3369 B		2713	14420	0178	00095	0931
0150	-0160	33758		2719	14426	0201	00127	0881
0175	-0148	33803		2722	14437	0223	00163	0849
0200	-0128	33840		2724	14450	0244	00204	0825
0225	-0105	33886		2727	14466	0264	00249	0797
0250	-0072	33947		2731	14486	0284	00297	0764
0300	0036	34142		2742	14547	0320	00398	0672
0400	0130	34383		2755	14609	0382	00618	0555
0500	0142	34478		2762	14632	0435	00862	0495

C-REF-NO 362	YR 1962	DEPTH 2332	WAVES 1 30X1	AIR T -03.3	VIS 4
CUNS. NO 059	MONTH 10	MXSAMPD 22	WAVES 2 3046	WET B	STN 059
LAT 72-580N	DAY 09	NO.DPTH 18	WND-DIR 270	WW-CODE 02	
LON 64-470W	HR 21.0	W-COLOR	WND-SPD 05	CLD-TPE 5	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 1009.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
210	0000	004	32360		2598	14475
210	0010	0026	32330		2596	14469
210	0030	0017	32364		2600	14469
210	0050	-0133	33106		2665	14413
210	0075	-0148	33270		2679	14412
210	0099	-0149	33400		2689	14418
210	0199	-0154	33793		2721	14437
210	0249	-0146	33875		2728	14451
210	0298	-0074	34000		2735	14494
210	0398	0056	34283		2752	14574
210	0497	0092	34401		2759	14609
210	0594	0116	34478		2764	14637
210	0790	0084	34491		2767	14655
210	1000	0046	34466		2767	14673
210	1200	0011	34478		2770	14691
210	1500	-0029 B	34486		2773	14724
210	2000	-0039	34492		2774	14805
210	2200	-0037	34500		2774	14840

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0040	32360		2598	14475	0000	00000	2034
0010	0026	32330		2596	14469	0021	00001	2050
0020	0029 D	3230 E		2593	14472	0041	00004	2078
0030	0017	32364		2600	14469	0062	00010	2019
0050	-0133	33106		2665	14413	0096	00023	1395
0075	-0148	33270		2679	14412	0130	00044	1263
0100	-0149	33405		2690	14418	0160	00071	1157
0125	-0152	33528		2700	14423	0188	00104	1061
*0150	-0153	33634		2708	14427	0214	00140	0977
*0175	-0154	33724		2716	14432	0238	00179	0907
0200	-0154	33795		2721	14438	0260	00222	0851
0225	-0154	33838		2725	14442	0281	00268	0817
0250	-0145	33877		2728	14451	0301	00317	0788
0300	-0071	34006		2736	14496	0339	00424	0717
0400	0057	34286		2752	14575	0404	00655	0576
0500	0093	34404		2759	14610	0459	00908	0513
0600	0116	34480		2764	14637	0509	01190	0475
0700	0106 B	3450 B		2766	14650	0556	01504	0455

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0800	0082	34490		2767	14656	0602	01855	0445
1000	0046	34466		2767	14673	0691	02680	0435
1200	0011	34478		2770	14691	0775	03632	0398
1500	-0029 B	34486		2773	14723	0890	05217	0356
2000	-0039	34492		2774	14804	1065	08368	0334

C-REF-NO 362	YR 1962	DEPTH 2413	WAVES 1 07X2	AIR T -02.2	VIS 5
CONS. NO 060	MONTH 10	MXSAMPD 23	WAVES 2 XX	WET B	STN 060
LAT 72-210N	DAY 10	NO.DPTH 18	WND-DIR 070	WW-CODE 73	
LON 67-000W	HR 05.7	W-COLOR	WND-SPD 08	CLD-TPE 7	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 1007.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
057	0000	007	31770		2549	14480
057	0010	0059	31761		2549	14477
057	0030	0056	32238		2587	14485
057	0050	-0140	32903		2649	14407
057	0075	-0101	33173		2670	14433
057	0100	-0151	33330		2684	14416
057	0150	-0146	33582		2704	14430
057	0250	-0140	33868		2727	14454
057	0300	-0076	34000		2735	14494
057	0400	0061	34281		2751	14577
057	0500	0116	34435		2760	14620
057	0600	0124	34486		2764	14641
057	0800	0087	34496		2767	14658
057	0998	0052	34490		2769	14676
057	1196	0016	34478		2770	14693
057	1494	-0023	34471		2771	14725
057	1994	-0040				
057	2288		34503			

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0070	31770		2549	14480	0000	00000	2499
0010	0059	31761		2549	14477	0025	00001	2500
0020	0068 E	3195 D		2563	14485	0050	00005	2363
0030	0056	32238		2587	14485	0072	00011	2134
0050	-0140	32903		2649	14407	0109	00025	1549
0075	-0101	33173		2670	14433	0146	00048	1352
0100	-0151	33330		2684	14416	0178	00077	1215
0125	-0157 C	33466		2695	14419	0207	00111	1107
0150	-0146	33582		2704	14430	0234	00149	1020
0175	-0152 C	3367 B		2711	14433	0259	00190	0950
0200	-0153 D	3375 B		2717	14437	0282	00234	0890
*0225	-0149 C	3381 B		2723	14444	0304	00282	0839
0250	-0140	33868		2727	14454	0325	00332	0797
0300	-0076	34000		2735	14494	0363	00440	0720
0400	0061	34281		2751	14577	0429	00673	0582
0500	0116	34435		2760	14620	0484	00925	0507
0600	0124	34486		2764	14641	0533	01206	0477
0700	0110 B	34500		2766	14652	0581	01522	0458

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0800	0087	34496		2767	14658	0626	01874	0444
1000	0052	34490		2769	14676	0714	02684	0422
1200	0015	34478		2770	14693	0798	03627	0401
1500	-0023	34470		2771	14726	0915	05259	0372
2000		34482						

C-REF-NO 362 YR 1962 DEPTH 1920 WAVES 1 05X2 AIR T 00.0 VIS 5
 CONS. NO 061 MONTH 10 MXSAMPD 18 WAVES 2 0582 WET B STN 061
 LAT 71-450N DAY 10 NO.DPTH 19 WND-DIR 090 WW-CODE 73
 LON 69-000W HR 12.9 W-COLOR WND-SPD 11 CLD-TPE
 MARSD SQ 259 C/I 1810 W-TRNSP BARO 1004. CLD-AMT 9 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
129	0000	002	32300		2594	14465
129	0010	0010	32311		2596	14462
129	0020	0038	32553		2614	14480
129	0030	0056	32644		2620	14491
129	0050	-0110	33319		2682	14427
129	0075	-0152	33521		2699	14414
129	0100	-0154	33641		2709	14419
129	0150	-0155	33782		2720	14429
129	0200	-0145	33880		2728	14443
129	0250	-0066	34006		2736	14490
129	0300	-0002	34169		2746	14530
129	0400	0069	34350		2756	14582
129	0500	0116	34458		2762	14621
129	0600	0098	34478		2765	14630
129	0800	0062	34484		2768	14647
129	1000	0031	34504		2771	14667
129	1200		34482			
129	1500	-0033	34489		2773	14722
129	1800	-0036	34489		2773	14772

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0020	32300		2594	14465	0000	00000	2070
0010	0010	32311		2596	14462	0021	00001	2057
0020	0038	32553		2614	14480	0041	00004	1885
0030	0056	32644		2620	14491	0059	00009	1824
0050	-0110	33319		2682	14427	0090	00021	1238
0075	-0152	33521		2699	14414	0119	00039	1070
0100	-0154	33641		2709	14419	0145	00062	0975
0125	-0155	33722		2716	14423	0169	00090	0911
0150	-0155	33782		2720	14429	0191	00121	0864
0175	-0155	33832		2724	14434	0212	00157	0824
0200	-0145	33880		2728	14443	0233	00196	0789
0225	-0109 B	33939		2732	14465	0252	00238	0756
0250	-0066	34006		2736	14490	0271	00284	0722
0300	-0002	34169		2746	14530	0305	00379	0629
0400	0069	34350		2756	14581	0364	00588	0536
0500	0116	34458		2762	14621	0416	00827	0490
0600	0098	34478		2765	14629	0464	01099	0463

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0700	0080	34483		2766	14638	0510	01406	0447
0800	0062	34484		2768	14647	0554	01749	0433
1000	0031	34504		2771	14666	0638	02522	0395
1200	-0000	34482		2771	14686	0717	03417	0386
1500	-0033	34489		2773	14721	0829	04967	0350

C-REF-NO 362 YR 1962 DEPTH 713 WAVES 1 XX AIR T 00.6 VIS B
 CONS. NO 062 MONTH 10 MXSAMPD 06 WAVES 2 3682 WET B STN 062
 LAT 71-290N DAY 10 NO.DPTH 14 WND-DIR 030 WW-CODE 73
 LON 70-000W HR 18.3 W-COLOR WND-SPD 03 CLD-TPE 7
 MARSD SQ 260 C/I 1810 W-TRNSP BARO 1003. CLD-AMT 8 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
183	0000	-005	31580		2539	14422
183	0009	-0017	31544		2535	14439
183	0018	0046	32012		2570	14475
183	0027	0025	32385		2601	14473
183	0045	-0089	32643		2626	14426
183	0068	-0122	32792		2639	14417
183	0091	-0116	32930		2650	14425
183	0136	-0130	33284		2679	14431
183	0182	-0148	33603		2706	14435
183	0227	-0150	33753		2718	14443
183	0273	-0154	33869		2727	14451
183	0365	-0022	34168		2747	14532
183	0459	0034	34345		2758	14575
183	0555	0047	34400		2762	14598

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0050	31580		2539	14422	0000	00000	2594
0010	-0009	3159 B		2538	14443	0026	00001	2604
0020	0046	32106		2577	14477	0050	00005	2230
0030	0007 B	3246 C		2607	14466	0071	00010	1945
0050	-0103 B	32684		2630	14421	0108	00025	1727
0075	-0122	32833		2643	14419	0150	00052	1606
0100	-0117	32998		2656	14427	0189	00087	1479
0125	-0125	33194		2672	14430	0225	00127	1325
0150	-0136	33392		2688	14432	0256	00171	1168
0175	-0146	33561		2702	14434	0284	00217	1034
0200	-0150	33675		2712	14438	0309	00265	0944
0225	-0150	33748		2718	14443	0332	00316	0886
0250	-0155	33812		2723	14446	0353	00368	0835
0300	-0121 E	3396 B		2734	14472	0393	00479	0732
0400	0006	34249		2752	14551	0459	00712	0572
0500	0051 B	34385		2760	14590	0513	00960	0497

C-REF-NO 362	YR 1962	DEPTH 2305	WAVES 1 05XX	AIR T 00.0	VIS 8
CONS. NO 063	MONTH 10	MXSAMPD 22	WAVES 2 0582	WET B	STN 063
LAT 71-300N	DAY 11	NO.DPTH 18	WNO-DIR 030	WW-CODE 85	
LON 65-000W	HR 05.1	W-COLOR	WNO-SPD 02	CLD-TPE 5	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 1005.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
051	0000	004	31840	805	2556	14467
051	0010	0033	31794		2553	14465
051	0030	0044	31930		2563	14475
051	0050	-0158	32870		2647	14398
051	0075	-0156	33075		2663	14406
051	0100	-0153	33246	609	2677	14414
051	0200	-0155	33746	620	2717	14437
051	0250	-0132	33836		2724	14457
051	0300	-0058	33976		2733	14502
051	0400	0034	34246	502	2750	14564
051	0500	0084	34389		2759	14605
051	0600	0111	34474	451	2764	14635
051	0800	0084	34502	496	2768	14657
051	1000	0048	34496	468	2769	14674
051	1200	0010	34480	411	2770	14691
051	1500	-0028	34488	299	2773	14724
051	2000	-0039	34504	299	2775	14805
051	2200	-0038	34501	327	2774	14839

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0040	31840	805	2556	14467	0000	00000	2431
0010	0033	31794	788 D	2553	14465	0025	00001	2463
0020	0050 E	3179 D	771 H	2552	14474	0049	00005	2471
0030	0044	31930	755 I	2563	14475	0074	00011	2363
0050	-0158	32870	725 I	2647	14398	0113	00027	1569
0075	-0156	33075	689 I	2663	14406	0151	00051	1411
0100	-0153	33246	609	2677	14414	0185	00081	1278
0125	-0155 B	33405	604 H	2690	14419	0215	00116	1154
0150	-0157 B	3354 B	604 I	2701	14425	0243	00155	1048
*0175	-0156 B	33655	610 H	2710	14430	0268	00197	0959
0200	-0155	33746	620	2717	14436	0292	00242	0888
0225	-0148	3380 B	609 E	2721	14445	0314	00290	0852
0250	-0132	33836	596 H	2724	14457	0335	00341	0824
0300	-0058	33976	568 I	2733	14502	0374	00453	0747
0400	0034	34246	502	2750	14564	0442	00691	0591
0500	0084	34389	466	2759	14605	0498	00949	0518
0600	0111	34474	451	2764	14635	0548	01232	0476
0700	0105 B	3450 B	472 G	2766	14649	0595	01545	0452

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0800	0084	34502	496	2768	14657	0640	01892	0437
1000	0048	34496	468	2769	14674	0726	02689	0414
1200	0010	34480	411	2770	14690	0808	03617	0395
1500	-0028	34488	299	2773	14724	0923	05196	0355
2000	-0039	34504	299	2775	14804	1096	08297	0325

C-REF-NO 362	YR 1962	DEPTH 517	WAVES 1 36X3	AIR T 00.0	VIS 8
CONS. NO 064	MONTH 10	MXSAMPD 04	WAVES 2 XX	WET B	STN 064
LAT 70-450N	DAY 11	NO.DPTH 13	WND-DIR 360	WW-CODE 02	
LON 60-000W	HR 18.7	W-COLOR	WND-SPD 05	CLD-TPE 6	
MAKSD SQ 259	C/I 1810	W-TRNSP	BARO 1014.	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
187	0000	021	33390		2670	14565
187	0010	0200	33406		2672	14562
187	0020	0200	33406		2672	14564
187	0030	0200	33409		2672	14566
187	0050	0201	33578		2686	14572
187	0075	-0041	33812		2719	14470
187	0099	-0058	33870		2724	14467
187	0149	-0012	33984		2731	14498
187	0199	0108	34192		2741	14564
187	0249	0208	34387		2750	14619
187	0298	0239	34509		2757	14642
187	0398	0220	34554		2762	14651
187	0447	0230	34589		2764	14664

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0210	33390		2670	14565	0000	00000	1353
0010	0200	33406		2672	14562	0014	00001	1334
0020	0200	33406		2672	14564	0027	00003	1334
0030	0200	33409		2672	14566	0040	00006	1332
0050	0201	33578		2686	14572	0066	00017	1206
0075	-0041	33812		2719	14470	0092	00033	0886
0100	-0058	33872		2724	14467	0114	00052	0832
0125	-0046	33924		2728	14478	0135	00076	0797
0150	-0010	33988		2732	14499	0154	00104	0765
0175	0047 B	34087		2737	14531	0173	00135	0720
0200	0110	34196		2741	14565	0191	00169	0677
0225	0166	34299		2746	14595	0207	00205	0640
0250	0209	34390		2750	14619	0223	00243	0606
0300	0239	34511		2757	14642	0252	00325	0543
0400	0235 E	3458 D		2763	14658	0304	00511	0490

C-REF-NO 362 YR 1962 DEPTH 128 WAVES 1 34X3 AIR T 02.2 VIS 8
 CONS. NO 065 MONTH 10 MXSAMPD 01 WAVES 2 XX WET B STN 065
 LAT 70-000N DAY 12 NO.DPTH 7 WND-DIR 340 WW-CODE 00
 LON 56-000W HR 04.5 W-COLOR WND-SPD 06 CLD-TPE
 MARSD SQ 258 C/I 1810 W-TRNSP BARO 1010. CLD-AMT 0 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
045	0000	028	33650		2685	14599
045	0010	0276	33684		2688	14599
045	0020	0276	33684		2688	14601
045	0030	0276	33680		2688	14603
045	0050	0275	33690		2688	14606
045	0075	0105	33948		2722	14538
045	0100	0051	33997		2729	14519

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0280	33650		2685	14599	0000	00000	1211
0010	0276	33684		2688	14599	0012	00001	1182
0020	0276	33684		2688	14601	0024	00002	1183
0030	0276	33680		2688	14603	0036	00006	1186
0050	0275	33690		2688	14606	0060	00015	1179
0075	0105	33948		2722	14538	0085	00031	0860
0100	0051	33997		2729	14519	0106	00050	0791

C-REF-NO 362	YR 1962	DEPTH 1646	WAVES 1 01X4	AIR T 01.7	VIS 8
CONS. NO 066	MONTH 10	MXSAMPD 15	WAVES 2 0146	WET B	STN 066
LAT 69-200N	DAY 12	NO.DPTH 18	WND-DIR 360	WW-CODE	
LON 60-000W	HR 14.7	W-COLOR	WND-SPD 13	CLD-TPE 2	
MARSD SQ 223	C/I 1810	W-TRNSP	BARO 1009.	CLD-AMT 3	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
147	0000	010	32390		2597	14502
147	0010	0094	32357		2595	14501
147	0020	0090	32407		2599	14501
147	0040	0179	33171		2655	14555
147	0060	-0146	33346		2685	14412
147	0085	-0148	33526		2699	14418
147	0110	-0167	33665		2711	14415
147	0160	-0122	33813		2722	14446
147	0210	-0038	33999		2734	14496
147	0260	0057	34167		2742	14550
147	0310	0092	34279		2749	14576
147	0410	0221	34524		2760	14653
147	0510	0180	34535		2764	14652
147	0600	0080	34458		2764	14621
147	0800	0053	34475		2767	14643
147	1000	0026	34469		2768	14664
147	1200	0011	34473		2770	14691
147	1500	-0022	34477		2772	14727

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0100	32390		2597	14502	0000	00000	2042
0010	0094	32357		2595	14501	0021	00001	2064
0020	0090	32407		2599	14501	0041	00004	2023
0030	0152 I	3277 I		2624	14536	0060	00009	1784
0050	0024 I	3330 E		2674	14489	0092	00021	1310
0075	-0173 I	33459		2695	14403	0122	00041	1112
0100	-0160	33614		2707	14416	0149	00064	0994
0125	-0161 B	3372 B		2715	14421	0173	00092	0914
0150	-0137	33789		2720	14437	0195	00123	0864
0175	-0099	33868		2726	14460	0216	00159	0816
0200	-0057	33961		2732	14485	0236	00197	0762
0225	-0007	34053		2737	14514	0255	00238	0715
0250	0040	34136		2741	14540	0272	00280	0678
0300	0087	34259		2748	14572	0305	00372	0616
0400	0210 B	34504		2759	14646	0363	00578	0528
0500	0190	34541		2763	14654	0414	00814	0487
0600	0080	34458		2764	14621	0462	01085	0464
0700	0050 F	3445 C		2766	14624	0508	01393	0447

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0800	0053	34475		2767	14643	0553	01737	0433
1000	0026	34469		2768	14664	0639	02533	0417
1200	0011	34473		2770	14691	0722	03471	0401
1500	-0022	34477		2772	14726	0839	05093	0368

C-REF-NO 362	YR 1962	DEPTH 1903	WAVES 1 01X2	AIR T 01.1	VIS 8
CONS. NO 067	MONTH 10	MXSAMPD 17	WAVES 2 0282	WET B	STN 067
LAT 69-010N	DAY 12	NO.DPTH 18	WND-DIR 020	WW-CODE 02	
LON 62-000W	HR 21.6	W-COLOR	WND-SPD 09	CLD-TPE 5	
MARSD SQ 223	C/I 1810	W-TRNSP	BARO 1008.	CLD-AMT 2	HW

O B S E R V E D

	GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
	216	0000	000	31320		2516	14442
	216	0010	0033	31346		2517	14459
	216	0020	0034	31359		2518	14461
	216	0030	0029	31726		2548	14466
	216	0050	-0158	32803		2641	14397
	216	0075	-0166	32921		2651	14399
	216	0100	-0159	33087		2664	14409
	216	0150	-0150	33384		2688	14425
	216	0200	-0157	33656		2710	14434
	216	0300	-0104	33917		2730	14479
	216	0400	0093	34276		2749	14591
	216	0500	0230	34540		2760	14672
	216	0592	0166	34525		2764	14659
	216	0791	0078	34484		2767	14653
	216	0990	0035	34471		2768	14666
	216	1189	0014	34474		2770	14690
	216	1488	-0027	34483		2772	14723
1	216	1687	-0035	34488		2773	14753

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0000	31320		2516	14442	0000	00000	2811
0010	0033	31346		2517	14459	0028	00001	2805
0020	0034	31359		2518	14461	0056	00006	2795
0030	0029	31726		2548	14466	0083	00013	2512
0050	-0158	32803		2641	14397	0125	00029	1621
0075	-0166	32921		2651	14399	0164	00054	1526
0100	-0159	33087		2664	14409	0201	00087	1399
0125	-0153	33240		2676	14418	0235	00126	1281
0150	-0150	33384		2688	14425	0266	00169	1170
0175	-0154	33527		2700	14430	0294	00216	1057
0200	-0157	33656		2710	14434	0319	00264	0957
0225	-0155	3373 C		2717	14441	0343	00315	0896
0250	-0145	3380 D		2722	14450	0365	00369	0844
0300	-0104	33917		2730	14479	0405	00483	0771
0400	0093	34276		2749	14591	0475	00730	0608
0500	0230	34540		2760	14672	0532	00992	0524
0600	0161	34523		2764	14658	0583	01278	0480
0700	0111	34502		2766	14652	0630	01594	0458

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0800	0075	34483		2767	14653	0676	01946	0445
1000	0034	34471		2768	14667	0764	02756	0422
1200	0012	34474		2770	14691	0847	03699	0402
1500	-0022 B	34482		2772	14726	0964	05311	0364

C-REF-NO 362	YR 1962	DEPTH 1400	WAVES 1 36X2	AIR T 00.0	VIS 7
CONS. NO 068	MONTH 10	MXSAMPD 11	WAVES 2 0182	WET B	STN 068
LAT 68-460N	DAY 13	NO.DPTH 17	WND-DIR 360	WW-CODE 02	
LON 64-000W	HR 04.3	W-COLOR	WND-SPD 09	CLD-TPE 5	
MARSD SQ 223	C/I 1810	W-TRNSP	BARO 1008.	CLD-AMT 5	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
043	0000	-001	31890		2563	14445
043	0009	-0009	32051		2576	14449
043	0017	-0045	32387		2604	14439
043	0026	-0082	32469		2612	14424
043	0043	-0112	32824		2642	14418
043	0064	-0129	33036		2659	14416
043	0129	-0134	33104		2665	14426
043	0173	-0146	33518		2699	14433
043	0218	-0150	33718		2715	14441
043	0264	-0142	33846		2725	14455
043	0362	-0043	34094		2742	14521
043	0460	0035	34316		2756	14576
043	0567	0074	34419		2762	14613
043	0759	0063	34477		2767	14640
043	0953	0032	34474		2769	14659
043	1051	0024	34476		2769	14672
043	1149	0016	34469		2769	14685

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0010	31890		2563	14445	0000	00000	2371
0010	-0013	3210 B		2579	14448	0023	00001	2213
0020	-0058	3243 C		2608	14433	0044	00004	1940
0030	-0092	3255 C		2619	14421	0063	00009	1836
0050	-0119	32914		2649	14417	0097	00023	1546
0075	-0132	3306 G		2661	14417	0135	00047	1432
0100	-0135 B	3309 I		2664	14420	0170	00079	1404
*0125	-0135	3310 C		2665	14425	0205	00119	1391
0150	-0140	3330 D		2681	14429	0239	00166	1240
0175	-0146	33530		2700	14433	0268	00214	1058
0200	-0150	33656		2710	14438	0293	00263	0959
0225	-0150	33740		2717	14443	0316	00314	0893
0250	-0146	33812		2723	14450	0338	00367	0838
0300	-0111 C	33941		2732	14476	0378	00479	0750
0400	-0009	34189		2748	14544	0447	00722	0609
0500	0054	34366		2759	14592	0504	00982	0514
0600	0077	34437		2763	14619	0554	01265	0478
0700	0073 B	34471		2766	14635	0601	01578	0450
0800	0056	34479		2767	14644	0645	01922	0433

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
1000	0028	34475		2769	14665	0731	02715	0414

C-REF-NO 362	YR 1962	DEPTH 530	WAVES 1 30X9	AIR T -00.6	VIS 8
CONS. NO 069	MONTH 10	MXSAMPD 04	WAVES 2 3529	WET B	STN 069
LAT 66-410N	DAY 13	NO.DPTH 11	WND-DIR 340	WW-CODE 02	
LOD 60-300W	HR 23.8	W-COLOR	WND-SPD 23	CLD-TPE 5	
MARSD SQ 223	C/I 1810	W-TRNSP	BARO 1002.	CLD-AMT 3	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
238	0000	000	31230		2509	14441
238	0010	-0014	31214		2508	14436
238	0030	-0013	31226		2509	14439
238	0050	-0158	32747		2637	14396
238	0075	-0165	32898		2649	14399
238	0100	-0160	33036		2660	14408
238	0150	-0144	33318		2683	14427
238	0200	-0144	33607		2706	14440
238	0250	-0142	33753		2718	14451
238	0300	0000	33980		2730	14528
238	0400	0027	34184		2745	14560

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0000	31230		2509	14441	0000	00000	2880
0010	-0014	31214		2508	14436	0029	00001	2887
0020	-0007 D	3112 I		2501	14439	0058	00006	2959
0030	-0013	31226		2509	14439	0088	00014	2877
0050	-0158	32747		2637	14396	0133	00031	1664
0075	-0165	32898		2649	14399	0174	00057	1544
0100	-0160	33036		2660	14408	0211	00090	1438
0125	-0152	33176		2671	14418	0246	00130	1331
0150	-0144	33318		2683	14427	0278	00176	1222
0175	-0143	33471		2695	14434	0308	00224	1104
0200	-0144	33607		2706	14440	0334	00275	0998
0225	-0152 C	3368 B		2712	14441	0359	00328	0935
0250	-0142	33753		2718	14451	0382	00384	0884
0300	0000	33980		2730	14528	0423	00502	0773
0400	0027	34184		2745	14560	0494	00753	0634

C-REF-NO 362	YR 1962	DEPTH 969	WAVES 1 30X9	AIR T 00.6	VIS 6
CONS. NO 070	MONTH 10	MXSAMPD 08	WAVES 2 3229	WET B	STN 070
LAT 66-450N	DAY 14	NO.DPTH 15	WND-DIR 310	WW-CODE 83	
LON 59-000W	HR 17.0	W-COLOR	WND-SPD 15	CLD-TPE 9	
MARSD SQ 222	C/I 1810	W-TRNSP	BARO 999.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
170	0000	-002	32270		2594	14446
170	0010	-0030	32237		2591	14442
170	0020	-0030	32236		2591	14444
170	0030	-0037	32282		2595	14443
170	0049	-0162	32977		2655	14397
170	0074	-0154	33140		2668	14408
170	0098	-0146	33305		2682	14418
170	0148	-0156	33641		2709	14426
170	0197	-0128	33790		2720	14449
170	0246	-0058	33958		2731	14492
170	0297	0036	34089		2737	14546
170	0396	0122	34366		2754	14605
170	0496	0116	34439		2761	14620
170	0595	0068	34429		2763	14615
170	0794	0045	34447		2766	14638

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0020	32270		2594	14446	0000	00000	2076
0010	-0030	32237		2591	14442	0021	00001	2097
0020	-0030	32236		2591	14444	0042	00004	2097
0030	-0037	32282		2595	14443	0063	00010	2059
0050	-0164	32992		2657	14397	0099	00024	1475
0075	-0154	33147		2669	14408	0134	00046	1356
0100	-0146	33320		2683	14418	0167	00075	1223
0125	-0152 B	3350 B		2697	14422	0196	00109	1083
0150	-0156	33649		2710	14426	0222	00145	0966
0175	-0145	3373 B		2716	14437	0245	00184	0903
0200	-0125	33801		2721	14452	0267	00227	0857
0225	-0092	33887		2727	14472	0288	00272	0802
0250	-0050	33969		2732	14497	0308	00320	0757
0300	0040	34099		2738	14548	0345	00424	0707
0400	0123	34372		2755	14606	0409	00650	0558
0500	0114	34439		2761	14620	0462	00897	0503
0600	0084 F	3445 C		2764	14623	0511	01174	0470
0700	0064 D	3446 B		2766	14631	0558	01485	0451
*0800	0044	34445		2766	14638	0604	01836	0448

C-REF-NO 362	YR 1962	DEPTH 750	WAVES 1 20X8	AIR T 01.7	VIS
CONS. NO 071	MONTH 10	MXSAMPD 06	WAVES 2 3149	WET B	STN 071
LAT 66-540N	DAY 15	NO.DPTH 14	WND-DIR 360	WW-CODE 70	
LON 57-000W	HR 03.0	W-COLOR	WND-SPD 13	CLD-TPE	
MARSD SQ 222	C/I 1810	W-TRNSP	BARO 998.	CLD-AMT 9	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
030	0000	014	32360		2592	14520
030	0010	0078	32295		2591	14493
030	0020	0078	32299		2591	14494
030	0030	0077	32309		2592	14496
030	0050	-0001	33316		2677	14477
030	0075	-0110	33521		2698	14434
030	0099	0008	33723		2709	14495
030	0150	-0087	33847		2723	14462
030	0200	0018	34038		2734	14521
030	0250	0115	34245		2745	14576
030	0300	0214	34420		2752	14630
030	0400	0194	34499		2760	14639
030	0500	0103				
030	0600	0079	34456		2764	14621

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0140	32360		2592	14520	0000	00000	2088
0010	0078	32295		2591	14493	0021	00001	2102
0020	0078	32299		2591	14494	0042	00004	2099
0030	0077	32309		2592	14496	0063	00010	2091
0050	-0001	33316		2677	14477	0097	00023	1283
0075	-0110	33521		2698	14434	0127	00042	1082
0100	0007	33727		2710	14495	0153	00065	0973
0125	-0024 I	3381 D		2718	14486	0177	00092	0896
0150	-0087	33847		2723	14461	0198	00123	0838
0175	-0046 D	33937		2729	14486	0219	00157	0785
0200	0018	34038		2734	14521	0238	00194	0741
0225	0067	34143		2740	14549	0256	00233	0690
0250	0115	34245		2745	14576	0273	00274	0645
0300	0214	34420		2752	14630	0304	00362	0590
0400	0194	34499		2760	14639	0360	00561	0518
0500	0103	3459 G		2773	14617	0406	00769	0385
0600	0079	34456		2764	14621	0449	01014	0465

C-REF-NO 362	YR 1962	DEPTH 99	WAVES 1 30X9	AIR T 01.7	VIS 4
CONS. NO 072	MONTH 10	MXSAMPD 01	WAVES 2 3549	WET B	STN 072
LAT 67-000N	DAY 15	NO.DPTH 6	WND-DIR 350	WW-CODE 70	
LON 55-000W	HR 12.5	W-COLOR	WND-SPD 13	CLD-TPE	
MARSD SQ 222	C/I 1810	W-TRNSP	BARO 995.	CLD-AMT 9	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
125	0000	029	32390		2584	14586
125	0010	0280	32401		2585	14584
125	0020	0282	32425		2587	14587
125	0030	0306	32780		2613	14603
125	0050	0282	33380		2663	14605
125	0075	0283	33424		2667	14610

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0290	32390		2584	14586	0000	00000	2172
0010	0280	32401		2585	14584	0022	00001	2156
0020	0282	32425		2587	14587	0043	00004	2139
0030	0306	32780		2613	14603	0064	00010	1891
0050	0282	33380		2663	14604	0097	00023	1419
0075	0283	33424		2667	14610	0132	00045	1388

C-REF-NO 362	YR 1962	DEPTH 567	WAVES 1 34X1	AIR T -01.1	VIS 8
CONS. NO 073	MONTH 10	MXSAMPD 05	WAVES 2 3442	WET B	STN 073
LAT 65-028N	DAY 16	NO.DPTH 13	WND-DIR 340	WW-CODE 02	
LON 58-300W	HR 11.7	W-COLOR	WND-SPD 05	CLD-TPE 5	
MARSD SQ 222	C/I 1810	W-TRNSP	BARO 1000.	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
117	0000	028	32990		2632	14590
117	0010	0260	33017		2636	14583
117	0020	0262	33021		2636	14586
117	0030	0263	33051		2639	14588
117	0050	0268	33087		2641	14594
117	0075	0195	33865		2709	14577
117	0100	0205	33974		2717	14587
117	0150	0290	34254		2732	14636
117	0200	0206	34302		2743	14609
117	0250	0210	34421		2752	14620
117	0300	0266	34539		2757	14655
117	0400	0274	34661		2766	14676
117	0500		34529			

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0280	32990		2632	14590	0000	00000	1710
0010	0260	33017		2636	14583	0017	00001	1674
0020	0262	33021		2636	14586	0034	00003	1673
0030	0263	33051		2639	14588	0051	00008	1651
0050	0268	33087		2641	14594	0084	00021	1629
0075	0195	33865		2709	14577	0117	00041	0985
0100	0205	33974		2717	14587	0140	00063	0911
0125	0253 E	3412 C		2725	14614	0162	00088	0837
0150	0290	34254		2732	14636	0183	00117	0772
0175	0253 E	3429 C		2738	14625	0202	00148	0716
0200	0206	34302		2743	14609	0219	00181	0668
0225	0199	34357		2748	14611	0235	00217	0622
0250	0210	34421		2752	14620	0250	00254	0584
0300	0266	34539		2757	14655	0279	00334	0546
0400	0274	34661		2766	14676	0330	00516	0468
0500		34529						

C-REF-NO 362	YR 1962	DEPTH 768	WAVES 1 04X1	AIR T 00.0	VIS 8
CUNS. NO 074	MONTH 10	MXSAMPD 07	WAVES 2 3486	WET B	STN 074
LAT 64-090N	DAY 16	NO.DPTH 15	WND-DIR 040	WW-CODE 02	
LON 56-150W	HR 21.0	W-COLOR	WND-SPD 04	CLD-TPE 5	
MARSD SQ 222	C/I 1810	W-TRNSP	BARO 1000.	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
210	0000	032	33390		2661	14613
210	0010	0312	33390		2661	14611
210	0020	0312	33394		2662	14613
210	0030	0312	33389		2661	14614
210	0050	0312	33387		2661	14618
210	0075	0352	34262		2727	14651
210	0100	0368	34458		2741	14664
210	0149	0408	34685		2755	14692
210	0199	0423	34768		2760	14708
210	0249	0410	34792		2763	14711
210	0300	0417	34827		2765	14723
210	0400	0439	34898		2768	14750
210	0500	0429	34917		2771	14762
210	0600	0413	34928		2774	14772
210	0700	0400	34931		2775	14784

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0320	33390		2661	14613	0000	00000	1441
0010	0312	33390		2661	14611	0014	00001	1434
0020	0312	33394		2662	14613	0029	00003	1432
0030	0312	33389		2661	14614	0043	00007	1436
0050	0312	33387		2661	14618	0072	00019	1439
0075	0352	34262		2727	14651	0101	00036	0817
0100	0368	34458		2741	14664	0120	00053	0687
0125	0389	34596		2750	14679	0136	00071	0607
0150	0409	34688		2755	14693	0151	00092	0560
0175	0419	34741		2758	14702	0164	00115	0533
0200	0423	34769		2760	14708	0178	00141	0519
0225	0417	34784		2762	14710	0191	00169	0504
0250	0410	34793		2763	14711	0203	00199	0492
0300	0417	34827		2765	14723	0228	00269	0479
0400	0439	34898		2768	14749	0275	00439	0461
0500	0429	34917		2771	14762	0321	00651	0446
0600	0413	34928		2774	14772	0365	00900	0429
0700	0400	34931		2775	14783	0408	01188	0422

C-REF-NO 362	YR 1962	DEPTH 2341	WAVES 1 11X2	AIR T 00.6	VIS 8
CUNS. NO 075	MONTH 10	MXSAMPD 20	WAVES 2 3426	WET B	STN 075
LAT 63-000N	DAY 17	NO.DPTH 19	WND-DIR 100	WW-CODE 02	
LON 53-000W	HR 10.3	W-COLOR	WND-SPD 08	CLD-TPE 5	
MARSD SQ 222	C/I 1810	W-TRNSP	BAKO 994.	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
103	0000	039	32290		2567	14628
103	0010	0385	34025		2705	14651
103	0020	0381	34026		2705	14651
103	0030	0382	34039		2706	14653
103	0050	0460	34251		2715	14692
103	0075	0538	34574		2731	14732
103	0100	0563	34739		2741	14749
103	0150	0586	34890		2750	14768
103	0200	0539	34913		2758	14758
103	0250	0536	34988		2764	14766
103	0300	0524	35002		2767	14770
103	0400	0492	34994		2770	14773
103	0500	0475	34993		2772	14782
103	0595	0456	34981		2773	14790
103	0793	0423	34960		2775	14809
103	0991	0402	34942		2776	14833
103	1190	0386	34938		2777	14860
103	1490	0363				
103	1989	0351	34931		2780	14980

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0390	32290		2567	14628	0000	00000	2333
0010	0385	34025		2705	14651	0017	00001	1022
0020	0381	34026		2705	14651	0027	00002	1018
0030	0382	34039		2706	14653	0037	00005	1010
0050	0460	34251		2715	14692	0057	00013	0931
0075	0538	34574		2731	14732	0078	00026	0778
0100	0563	34739		2741	14749	0097	00043	0688
0125	0581	34837		2747	14762	0114	00062	0639
0150	0586	34890		2750	14768	0129	00084	0610
0175	0564 C	3491 B		2754	14764	0144	00109	0574
0200	0539	34913		2758	14758	0158	00136	0542
0225	0535	34951		2762	14761	0172	00165	0513
0250	0536	34988		2764	14766	0184	00196	0489
0300	0524	35002		2767	14769	0209	00264	0471
0400	0492	34994		2770	14773	0255	00431	0451
0500	0475	34993		2772	14782	0300	00640	0443
0600	0455	34980		2773	14790	0345	00892	0440

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0700	0437	34969		2774	14799	0389	01189	0437
0800	0422	34959		2775	14810	0433	01530	0437
1000	0401	34942		2776	14834	0523	02358	0444
1200	0385	34933		2777	14860	0613	03384	0449
1500	0365	34925		2778	14902	0751	05300	0455
2000	0351	34931		2780	14981	0986	09567	0472

C-REF-NO 362	YR 1962	DEPTH 2103	WAVES 1 09X3	AIR T 02.2	VIS 2
CONS. NO 076	MONTH 10	MXSAMPD 19	WAVES 2 XX	WET B	STN 076
LAT 62-540N	DAY 17	NC.DPTH 17	WND-DIR 090	WW-CODE 83	
LON 55-000W	HR 17.4	W-COLOR	WND-SPD 13	CLD-TPE 7	
MARSD SQ 222	C/I 1810	W-TRNSP	BARO 986.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
174	0000	036	33560		2670	14632
174	0010	0359	33549		2670	14633
174	0030	0359	33549		2670	14637
174	0050	0642	34702		2728	14772
174	0075	0590	34874		2749	14758
174	0100	0567	34918		2755	14753
174	0150	0528	34972		2764	14746
174	0200	0506	34984		2768	14745
174	0300	0483	34996		2771	14753
174	0400	0454	34981		2773	14757
174	0500	0437	34969		2774	14766
174	0563	0426	34960		2775	14772
174	0753	0394	34934		2776	14790
174	0945	0374	34926		2778	14813
174	1141	0364	34915		2778	14842
174	1438	0353	34927		2780	14887
174	1936	0315	34938		2784	14956

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0360	33560		2670	14632	0000	00000	1348
0010	0359	33549		2670	14633	0014	00001	1356
0020	0341 F	3348 I		2665	14626	0027	00003	1396
0030	0359	33549		2670	14637	0041	00006	1357
0050	0642	34702		2728	14772	0063	00015	0805
0075	0590	34874		2749	14757	0081	00026	0616
0100	0567	34918		2755	14753	0096	00039	0559
0125	0546	34950		2760	14749	0109	00055	0513
0150	0528	34972		2764	14746	0122	00072	0479
0175	0516	34981		2766	14745	0134	00092	0461
0200	0506	34984		2768	14745	0145	00114	0450
0225	0499	34989		2769	14747	0156	00139	0442
0250	0493	34993		2770	14748	0168	00166	0435
0300	0483	34996		2771	14753	0189	00227	0427
0400	0454	34981		2773	14757	0232	00380	0416
0500	0437	34969		2774	14766	0274	00575	0416
0600	0419	34954		2775	14775	0316	00813	0417
0700	0402	34940		2776	14784	0358	01096	0418
0800	0388	34931		2777	14795	0400	01422	0417

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
1000	0371	34922		2778	14821	0485	02209	0422
1200	0362	34916		2778	14851	0572	03192	0433
1500	0346	34920		2780	14894	0704	05031	0435

C-REF-NO 362	YR 1962	DEPTH 237	WAVES 1 36X3	AIR T -03.3	VIS 6
CONS. NO 077	MONTH 10	MXSAMPD 02	WAVES 2 3626	WET B	STN 077
LAT 62-300N	DAY 19	NO.DPTH 10	WND-DIR 290	WW-CODE	
LON 63-010W	HR 02.6	W-COLOR	WND-SPD 08	CLD-TPE 9	
MARSD SQ 223	C/I 1810	W-TRNSP	BARO 1008.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
026	0000	006	32580		2615	14487
026	0010	0057	32617		2618	14488
026	0020	0058	32619		2618	14490
026	0030	0065	32639		2619	14495
026	0050	0078	32683		2622	14505
026	0060	0053	32740		2628	14496
026	0075	-0118	32985		2655	14423
026	0100	-0139	33193		2672	14420
026	0150	-0129	33440		2692	14436
026	0200	-0091	33730		2714	14466

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0060	32580		2615	14487	0000	00000	1876
0010	0057	32617		2618	14488	0019	00001	1846
0020	0058	32619		2618	14490	0037	00004	1845
0030	0065	32639		2619	14495	0056	00009	1833
0050	0078	32683		2622	14505	0092	00024	1806
0075	-0118	32985		2655	14422	0134	00050	1490
0100	-0139	33193		2672	14420	0169	00081	1323
0125	-0140	3333 B		2683	14425	0201	00118	1218
0150	-0129	33440		2692	14436	0231	00160	1134
0175	-0119 B	3361 D		2706	14448	0258	00204	1003
0200	-0091	33730		2714	14466	0282	00251	0923

C-REF-NO 362 YR 1962 DEPTH 640 WAVES 1 04X1 AIR T 00.0 VIS 8
 CONS. NO 078 MONTH 10 MXSAMPD 05 WAVES 2 3446 WET B STN 078
 LAT 60-310N DAY 19 NO.DPTH 13 WND-DIR 050 WW-CODE 01
 LON 62-320W HR 13.8 W-COLOR WND-SPD 08 CLD-TPE 6
 MARSD SQ 223 C/I 1810 W-TRNSP BARO 1013. CLD-AMT 7 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
138	0000	010	32630		2616	14506
138	0009	0090	32457		2603	14500
138	0019	0088	32491		2606	14501
138	0028	0088	32548		2611	14504
138	0047	0088	32555		2611	14507
138	0071	0092	32772		2628	14516
138	0094	0092	32869		2636	14521
138	0141	0073	33534		2691	14529
138	0188	0078	33926		2722	14545
138	0236	0192	34316		2745	14609
138	0283	0326	34679		2763	14680
138	0378	0363	34789		2768	14713
138	0477	0368				

#TIME-DISTANCE CHECK FAILED

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0100	32630		2616	14506	0000	00000	1859
0010	0090	32454		2603	14500	0019	00001	1987
0020	0088	32498		2607	14502	0039	00004	1953
0030	0088	32549		2611	14504	0059	00009	1914
0050	0088	3258 B		2613	14508	0097	00025	1891
0075	0092	3279 B		2630	14517	0143	00054	1735
0100	0090	3294 C		2642	14522	0185	00091	1614
0125	0080	3329 G		2670	14526	0222	00134	1346
0150	0069	3362 B		2698	14530	0253	00177	1088
0175	0070 B	3383 B		2715	14537	0278	00219	0928
0200	0100 B	34025		2728	14558	0300	00261	0800
0225	0160 B	34228		2741	14591	0319	00302	0689
0250	0235 B	3444 B		2751	14631	0335	00341	0593
0300	0345 D	3470 F		2762	14691	0362	00418	0499
0400	0411 I							

C-REF-NO 362	YR 1962	DEPTH 1142	WAVES 1 XX	AIR T 00.6	VIS 7
CONS. NO 079	MONTH 10	MXSAMPD 11	WAVES 2 0982	WET B	STN 079
LAT 59-150N	DAY 20	NO.DPTH 17	WND-DIR 090	WW-CODE 02	
LON 60-000W	HR 04.4	W-COLOR	WND-SPD 03	CLD-TPE 6	
MARSD SQ 187	C/I 1810	W-TRNSP	BARO 1008.	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
044	0000	010	33250		2666	14514
044	0010	0127	33297		2668	14529
044	0020	0188	33824		2706	14565
044	0030	0214	33966		2716	14580
044	0050	0239	34059		2721	14595
044	0075	0277	34172		2727	14617
044	0100	0340	34335		2734	14651
044	0150	0277	34487		2752	14634
044	0200	0318	34618		2759	14662
044	0250	0348	34703		2762	14684
044	0300	0360	34744		2765	14698
044	0400	0388	34830		2769	14727
044	0500	0378	34839		2770	14740
044	0600	0384	34858		2771	14759
044	0800	0388	34891		2773	14795
044	1000	0388	34905		2774	14828
044	1100	0388	34912		2775	14845

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0100	33250		2666	14514	0000	00000	1387
0010	0127	33297		2668	14529	0014	00001	1368
0020	0188	33824		2706	14565	0026	00002	1009
0030	0214	33966		2716	14580	0036	00005	0921
0050	0239	34059		2721	14595	0054	00012	0871
0075	0277	34172		2727	14617	0075	00026	0818
0100	0340	34335		2734	14651	0095	00044	0753
0125	0318 G	3443 B		2743	14646	0113	00064	0665
0150	0277	34487		2752	14634	0128	00086	0585
0175	0292 C	34557		2756	14645	0143	00110	0547
0200	0318	34618		2759	14662	0156	00136	0527
0225	0335	34666		2761	14674	0169	00165	0509
0250	0348	34703		2762	14684	0182	00196	0496
0300	0360	34744		2765	14698	0207	00265	0482
0400	0388	34830		2769	14727	0254	00435	0456
0500	0378	34839		2770	14740	0300	00646	0447
0600	0384	34858		2771	14759	0345	00902	0449
0700	0387	34876		2772	14777	0390	01205	0448
0800	0388	34891		2773	14794	0435	01555	0447

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
1000	0388	34905		2774	14828	0527	02402	0455

C-REF-NO 362	YR 1962	DEPTH 192	WAVES 1 XX	AIR T 00.6	VIS 8
CONS. NO 080	MONTH 10	MXSAMPD 02	WAVES 2 42	WET B	STN 080
LAT 59-040N	DAY 20	NO.DPTH 9	WND-DIR 130	WW-CODE 02	
LON 61-140W	HR 08.4	W-COLOR	WND-SPD 05	CLD-TPE	
MARSD SQ 187	C/I 1810	W-TRNSP	BARO 1004.	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
084	0000	011	32490		2605	14508
084	0010	0093	32497		2606	14502
084	0019	0093	32543		2610	14504
084	0029	0094	32791		2630	14510
084	0048	0092	32925		2641	14514
084	0072	0076	33129		2658	14513
084	0096	0083	33285		2670	14523
084	0144	0120	33499		2685	14550
084	0164	0066	33635		2699	14531

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0110	32490		2605	14508	0000	00000	1972
0010	0093	32497		2606	14502	0020	00001	1957
0020	0093	32566		2612	14505	0039	00004	1904
0030	0094	32803		2631	14510	0057	00009	1724
0050	0091	32942		2642	14514	0091	00022	1616
0075	0076	33151		2660	14514	0130	00047	1449
0100	0090 B	33302		2671	14527	0165	00078	1342
0125	0118 E	3341 C		2678	14545	0198	00116	1275
0150	0090 F	3356 B		2691	14539	0228	00159	1149

C-REF-NO 362 YR 1962 DEPTH 137 WAVES 1 11X2 AIR T 00.6 VIS 5
 CONS. NO 081 MONTH 10 MXSAMPD 01 WAVES 2 0482 WET B STN 081
 LAT 58-570N DAY 20 NO.DPTH 8 WND-DIR 110 WW-CODE 26
 LON 61-540W HR 11.8 W-COLOR WND-SPD 09 CLD-TPE 5
 MARSD SQ 187 C/I 1810 W-TRNSP BARO 1002. CLD-AMT 8 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
118	0000	011	32200		2581	14504
118	0010	0102	32254		2586	14503
118	0020	0104	32303		2590	14506
118	0030	0107	32363		2595	14510
118	0050	0101	32380		2596	14511
118	0075	0100	32487		2605	14516
118	0100	0076	32784		2630	14513
118	0120	0036	32914		2643	14500

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0110	32200		2581	14504	0000	00000	2193
0010	0102	32254		2586	14503	0022	00001	2147
0020	0104	32303		2590	14506	0043	00004	2110
0030	0107	32363		2595	14510	0064	00010	2066
0050	0101	32380		2596	14511	0106	00027	2050
0075	0100	32487		2605	14516	0156	00059	1967
0100	0076	32784		2630	14513	0203	00100	1728

C-REF-NO 362	YR 1962	DEPTH 1774	WAVES 1 05X2	AIR T 00.0	VIS 6
CONS. NO CAL	MONTH 10	MXSAMPD 10	WAVES 2 0582	WET B	STN CAL
LAT 71-410N	DAY 10	NO.DPTH 4	WND-DIR 050	WW-CODE 70	
LON 69-130W	HR 15.4	W-COLOR	WND-SPD 10	CLD-TPE	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 1003.	CLD-AMT 9	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
154	0990	0040	34486		2769	14669
154	0995	0040	34492		2770	14670
154	1000	0040	34486		2769	14671
154	1005	0040	34486		2769	14671

SECTION IV

Bathythermograms

EXPLANATION OF DATA HEADINGS IN TABLE 2

CON No:		The consecutive BT slide number.
LAT:	}	Position of platform at time of BT lowering.
LONG:		
DATE:		
	Day	Day
	Mon	Month
	Yr	Year
GMT:	Hrs	The Greenwich Mean Time at which the BT lowering was made.
	Min	

TABLE 2

CON No	LAT		LONG		DATE			GMT	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min
001	78	00	073	00	26	09	62	12	15
002	78	00	074	00	26	09	62	13	50
003	78	00	075	00	26	09	62	17	27
004	77	30	073	00	27	09	62	00	10
005	77	30	074	00	27	09	62	02	30
006	77	31	074	54	27	09	62	06	06
007	77	00	072	00	27	09	62	13	10
008	77	00	073	00	27	09	62	17	52
009	76	59	074	28	27	09	62	21	35
010	77	00	076	00	28	09	62	02	15
011	77	00	077	00	28	09	62	06	16
012	76	07	081	31	28	09	62	23	25
013	76	04	081	31	29	09	62	01	10
014	75	58	081	41	29	09	62	04	17
015	75	53	081	38	29	09	62	06	42
016	76	10	084	26	29	09	62	09	06
017	75	54	082	28	29	09	62	09	22
018	76	03	082	34	29	09	62	11	25
019	76	10	082	34	29	09	62	14	30
020	76	17	082	45	29	09	62	17	31
021	76	04	084	20	29	09	62	23	40
022	75	58	084	14	30	09	62	03	00
023	75	53	084	04	30	09	62	05	25
024	73	40	084	00	02	10	62	17	56
025	73	47	084	00	02	10	62	19	16

TABLE 2

CON No	LAT		LONG		DATE			GMT	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min
026	73	54	084	00	02	10	62	21	31
027	74	00	084	00	03	10	62	00	50
028	74	08	084	00	03	10	62	03	20
029	74	15	084	00	03	10	62	05	56
030	74	22	084	00	03	10	62	08	10
031	74	29	084	00	03	10	62	10	50
032	74	29	082	46	03	10	62	14	05
033	74	22	082	48	03	10	62	16	48
034	74	15	082	42	03	10	62	18	50
035	74	08	082	42	03	10	62	20	40
036	74	01	082	42	03	10	62	22	30
037	73	54	082	43	04	10	62	00	50
038	73	48	082	43	04	10	62	03	05
039	73	48	081	30	04	10	62	06	22
040	73	54	081	30	04	10	62	08	05
041	74	01	081	30	04	10	62	09	48
042	74	08	081	29	04	10	62	12	00
043	74	15	081	28	04	10	62	14	40
044	74	22	081	30	04	10	62	17	04
045	74	29	081	25	04	10	62	19	11
046	75	26	079	22	05	10	62	11	20
047	75	43	077	00	05	10	62	18	00
048	76	00	074	00	06	10	62	00	42
049	76	15	070	42	06	10	62	08	00
050	75	04	075	05	06	10	62	17	50

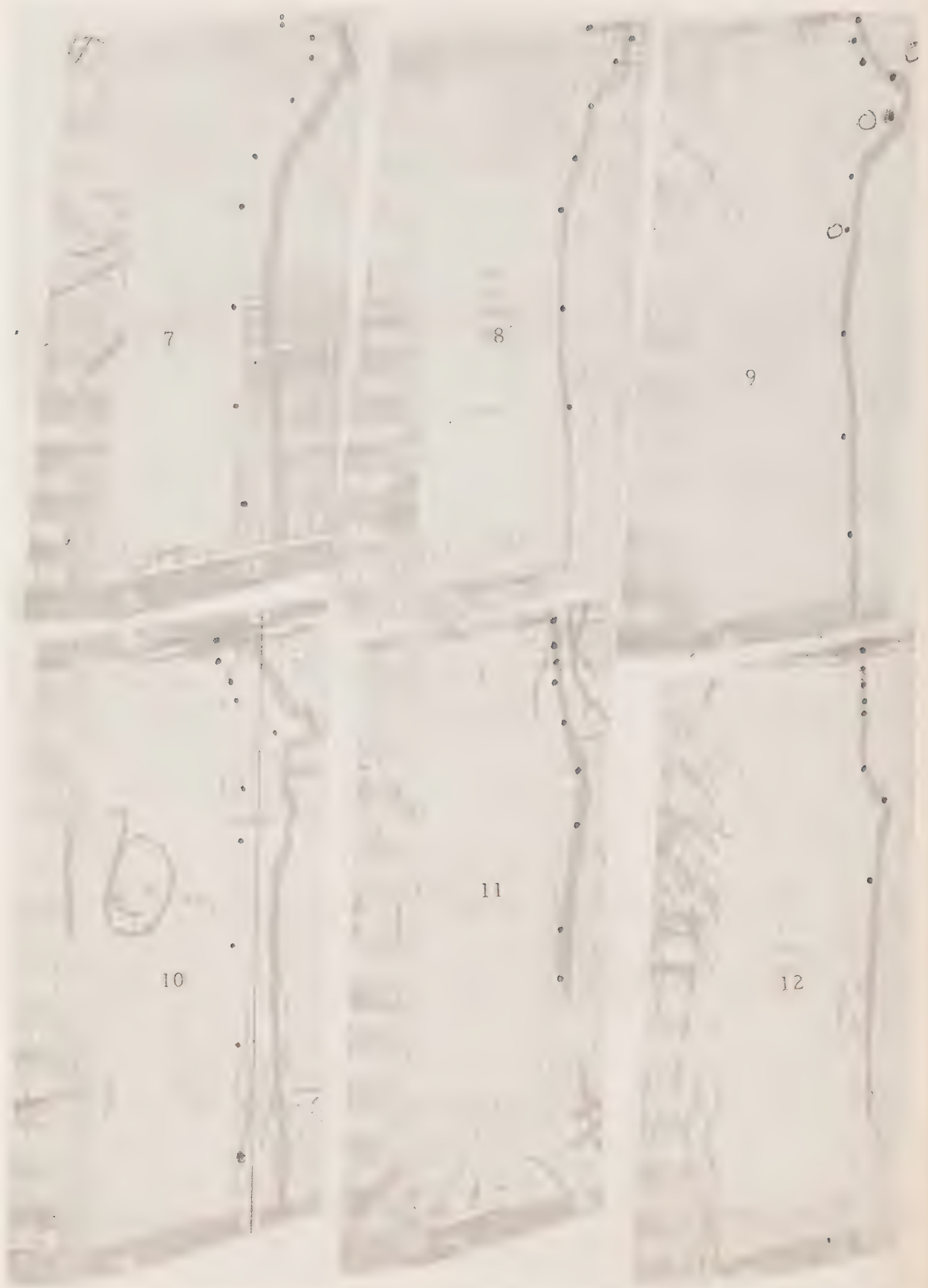
TABLE 2

CON No	LAT		LONG		DATE			GMT	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min
051	73	34	076	45	07	10	62	05	55
052	74	06	074	16	07	10	62	12	00
053	75	00	070	04	07	10	62	22	47
054	75	37	067	40	08	10	62	07	30
055	74	59	063	50	08	10	62	15	30
056	75	00	059	37	08	10	62	23	47
057	74	30	060	20	09	10	62	04	05
058	73	30	063	00	09	10	62	14	00
059	72	58	064	47	09	10	62	20	20
060	72	21	067	00	10	10	62	05	13
061	71	45	069	00	10	10	62	12	20
062	71	29	070	00	10	10	62	17	50
063	71	30	065	00	11	10	62	04	26
064	70	45	060	00	11	10	62	18	19
065	70	00	056	00	12	10	62	04	25
066	69	20	060	00	12	10	62	14	12
067	69	01	062	00	12	10	62	21	00
068	68	47	064	00	13	10	62	03	47
069	66	37	061	07	13	10	62	21	00
070	66	41	060	30	14	10	62	00	12
071	66	43	059	50	14	10	62	11	00
072	66	45	059	00	14	10	62	16	35
073	66	51	058	02	14	10	62	22	00
074	66	54	057	00	15	10	62	02	42
075	66	57	056	00	15	10	62	08	54

TABLE 2

CON No	LAT		LONG		DATE			GMT	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min
076	67	00	055	00	15	10	62	12	15
077	66	14	056	00	15	10	62	19	45
078	65	02	058	30	16	10	62	11	13
079	64	29	057	12	16	10	62	17	20
080	64	09	056	15	16	10	62	20	38
081	63	33	054	25	17	10	62	04	33
082	63	00	053	00	17	10	62	09	45
083	62	54	055	00	17	10	62	16	53
084	62	48	057	00	17	10	62	23	50
085	62	40	059	53	18	10	62	16	15
086	62	30	063	01	19	10	62	02	10
087	60	31	062	32	19	10	62	13	13
088	59	15	060	00	20	10	62	04	05
089	59	04	061	14	20	10	62	08	10
090	58	57	061	54	20	10	62	11	35





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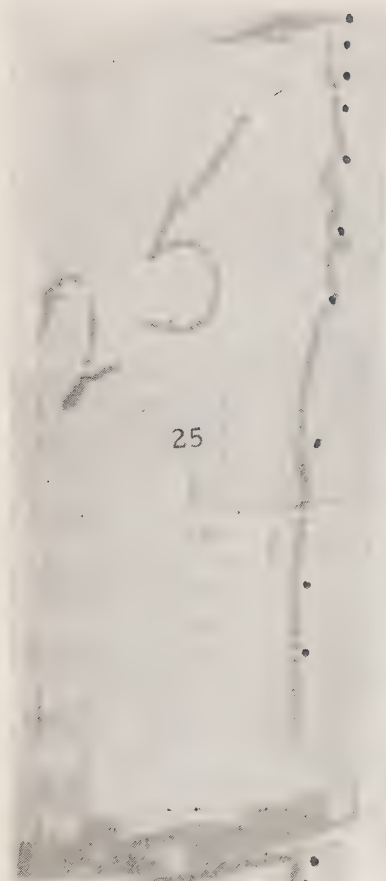
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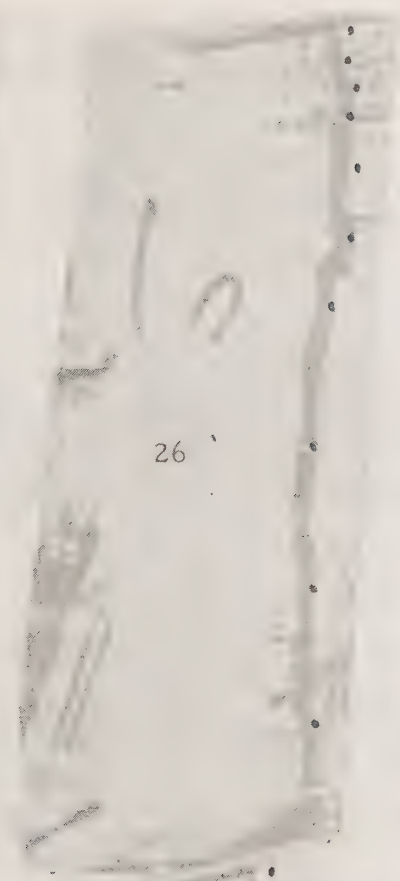
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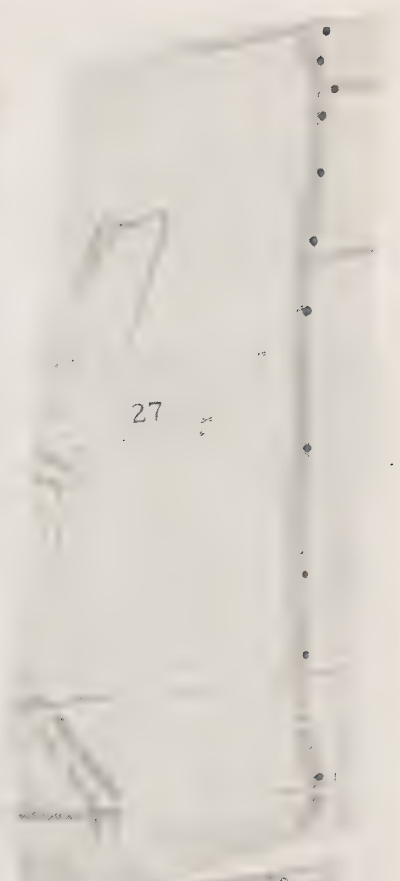
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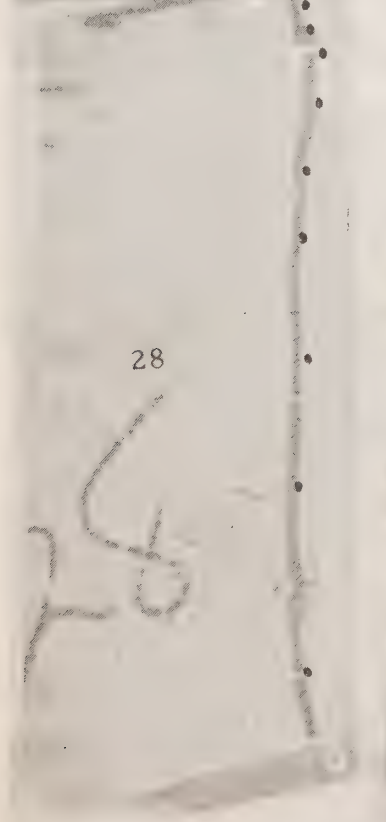
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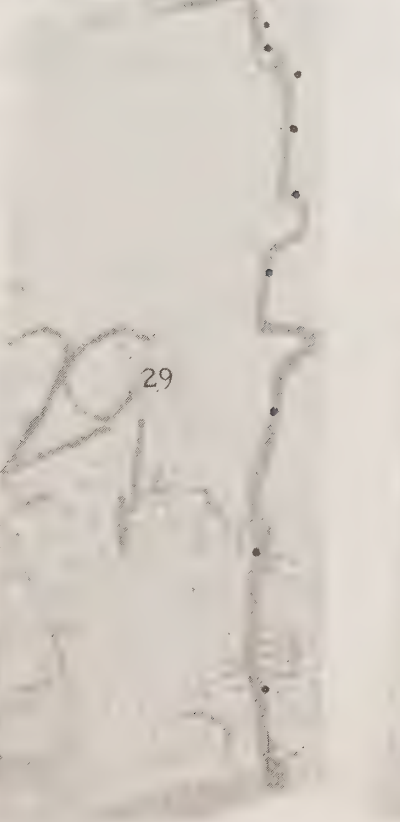
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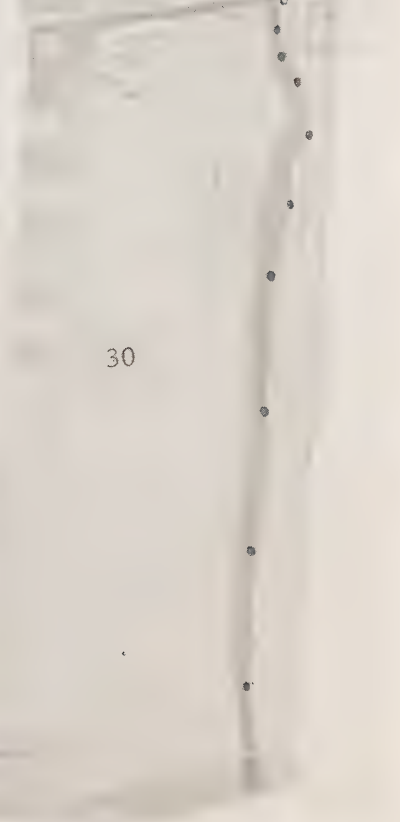
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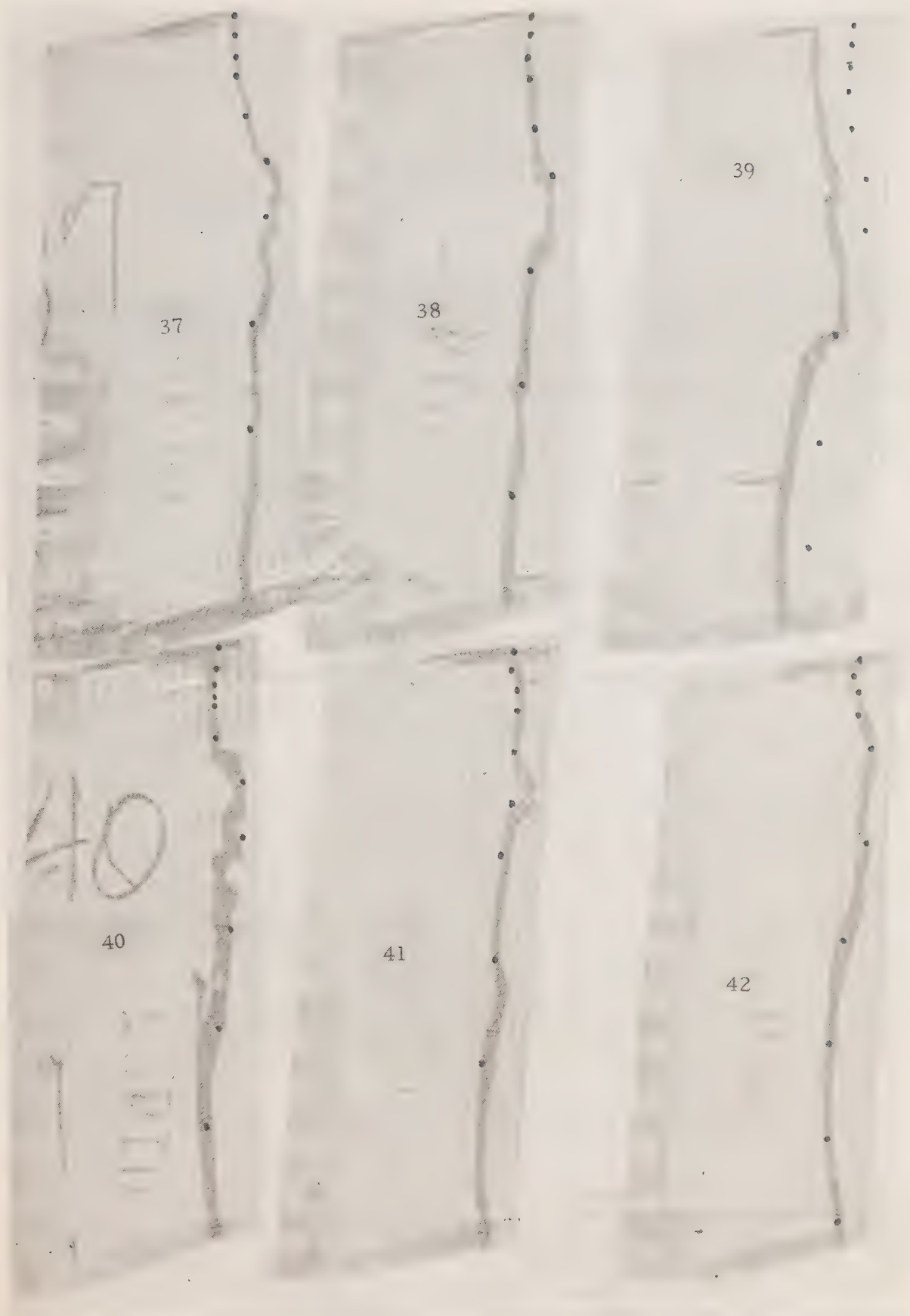
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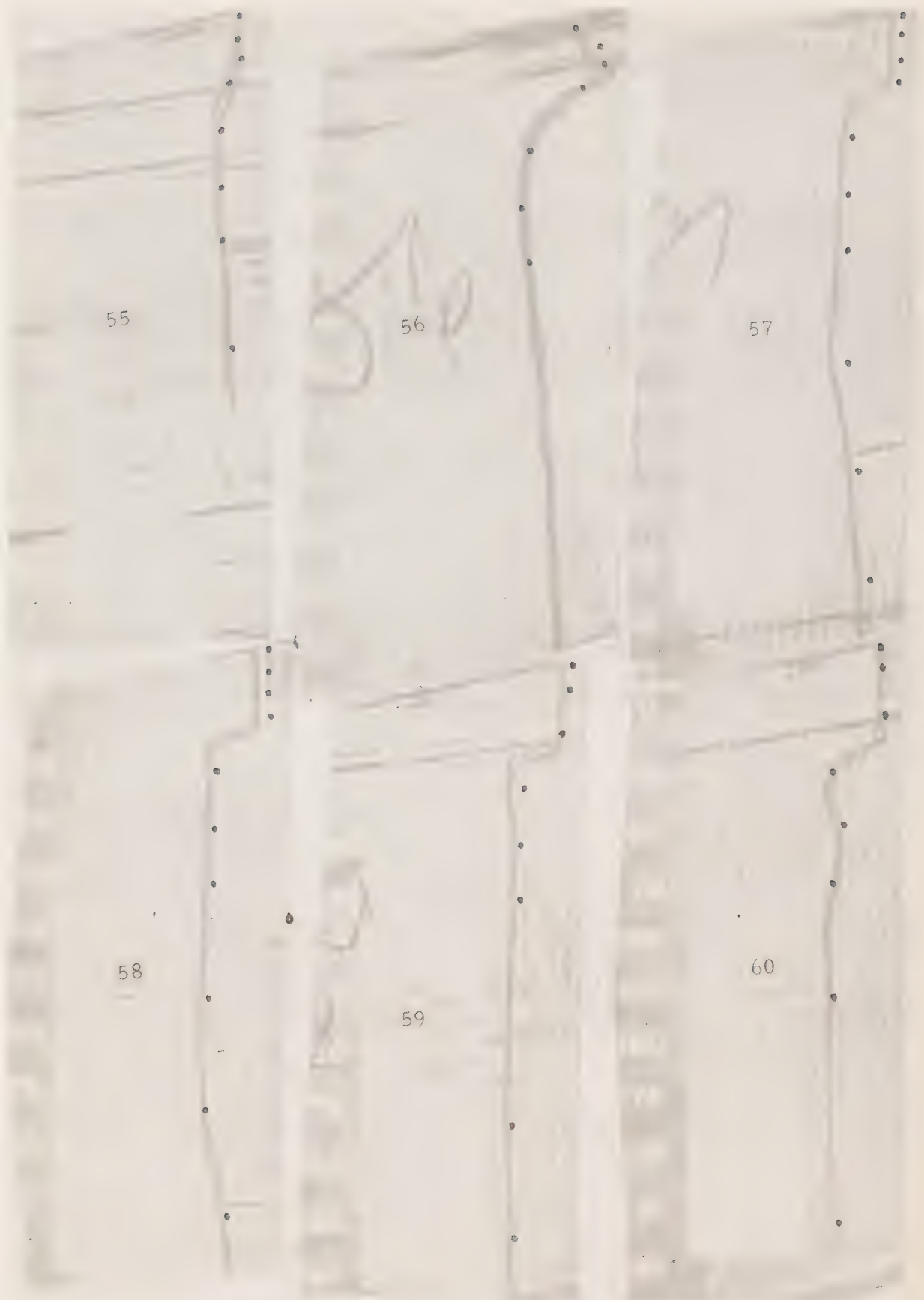
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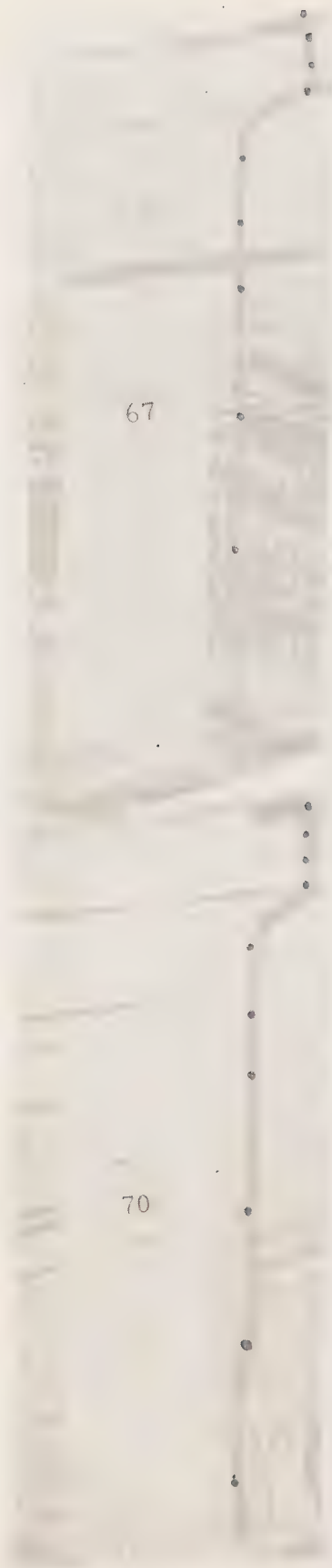
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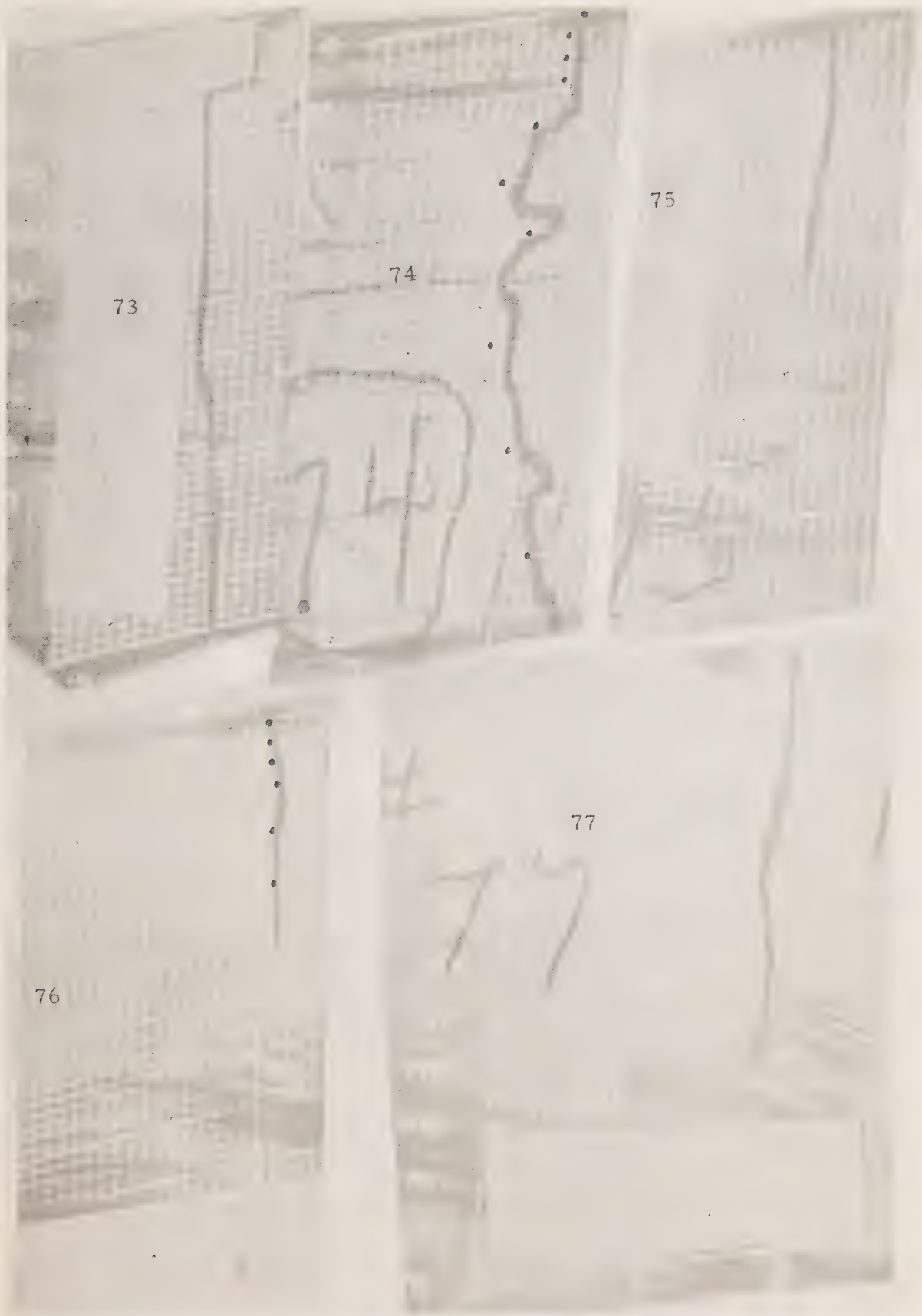
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PRINTED PUBLICATIONS OF THE CANADIAN OCEANOGRAPHIC DATA CENTRE

IN THE 1967 DATA RECORD SERIES

NO.	TITLE	CODC REFERENCE
1	Gulf of St. Lawrence	10-65-006
2	Sable Island to Grand Banks	10-65-005
3	Cabot Strait	10-66-004

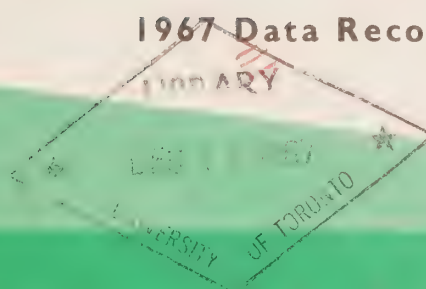


OCEAN WEATHER STATION 'P' NORTH PACIFIC OCEAN

May 27 to August 10, 1966

No.5

1967 Data Record Series



Canadian Oceanographic Data Centre

Programmed by the
Canadian Committee on Oceanography

1967

ROGER DUHAMEL, F.R.S.C.
QUEEN'S PRINTER AND CONTROLLER OF STATIONERY
Ottawa, 1967

Cat. No. M58-1/1967-5

Price \$1.00

CANADIAN OCEANOGRAPHIC DATA CENTRE

ERRATA

TO

Publication No. 6, 1966 Data Record Series

Ocean Weather Station "P" North Pacific Ocean.
September 17 to December 15, 1965.
CODC REF NOS: 02-65-009, 02-65-010

Second flyleaf: "Observer" should read "Observers"
and the name K. Gantzer should be added.

Inside Back cover: No. 5 should read "Ocean Weather
Station "P"

Publication Nos. 6,8, and 11, 1966 Data Record Series

Ocean Weather Station "P" North Pacific Ocean
CODC REF. NOS: 02-65-009, 02-65-010 (Sept 17-Dec 15, 1965);
02-65-011, 02-66-001 (Dec 11, 1965-March 9, 1966);
02-66-002, 02-66-003 (March 3-June 2, 1966)

All sounding depths shown in Table 1, Section IV of these
data records are charted depths and should read "fathoms"
not "metres".

OCEAN WEATHER STATION 'P'

NORTH PACIFIC OCEAN

May 27 to August 10, 1966

CODC Reference 02-66-004

02-66-006

No. 5

1967 Data Record Series

Canadian Oceanographic Data Centre

615 Booth St., Ottawa, Canada

Programmed by the Canadian Committee on Oceanography

SECTION I

Description of data collection procedures



Figure 1.

The Canadian Weather Ship C.C.G.S. " St. Catharines " . (D.O.T. Photo)

The oceanograph winch is located on the starboard side of the signal deck, just aft of the bridge wing.



Figure 2.

The Canadian Weather Ship C.C.G.S. "Stonetown".

(D.O.T. Photo)

Bathythermograph soundings boom can be seen below the bridge on the signal deck.

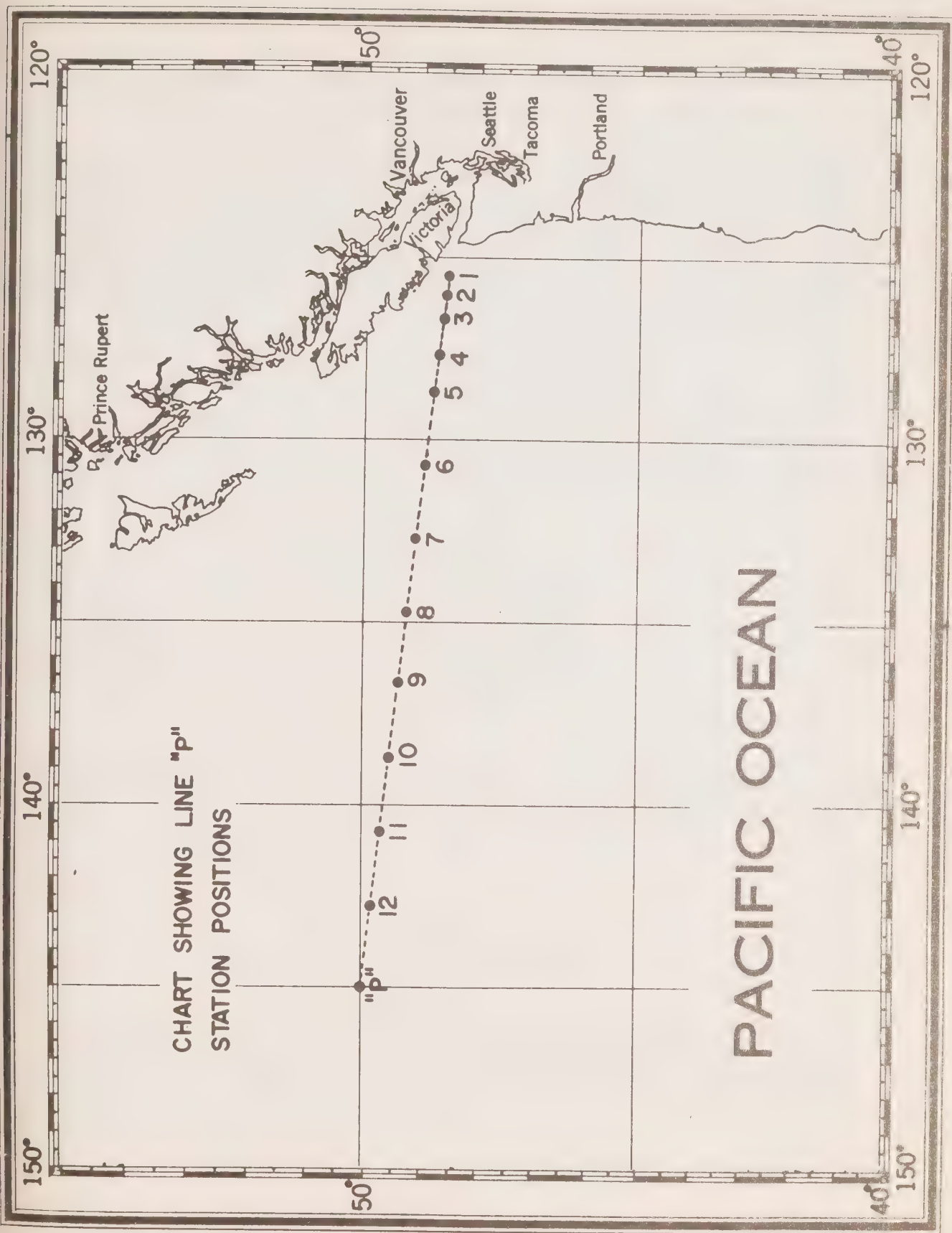


Figure 3.

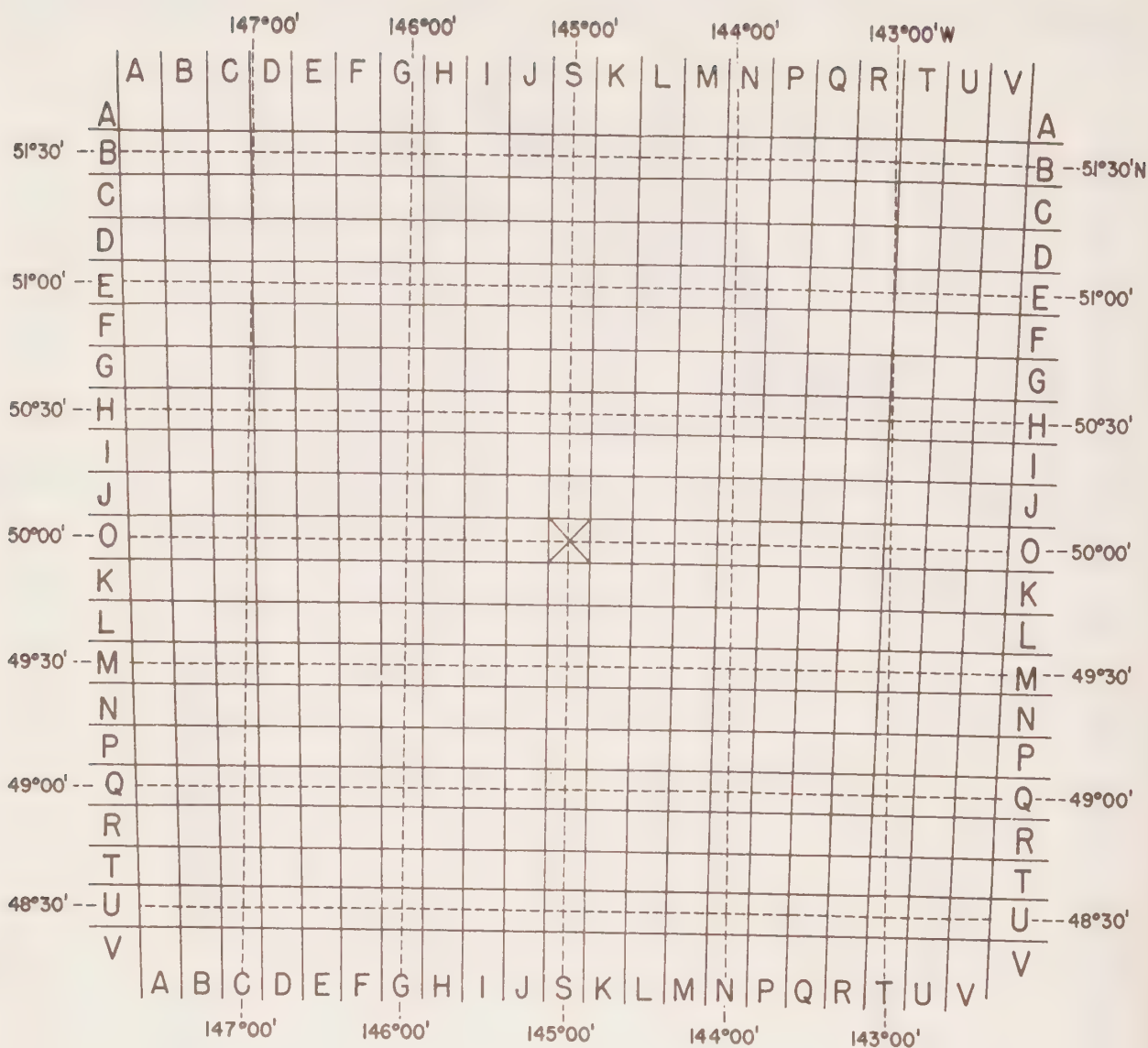


Figure 4.

Position-indicating grid for Ocean Weather Station "P", with mercator projection of a latitude and longitude grid superimposed.

INTRODUCTION

Canadian operation of Ocean Weather Station "P" (latitude 50°00'N, longitude 145°00'W) was inaugurated in December 1950. The Station is manned by two vessels of the Canadian naval frigate class operated by the Marine Services of the Department of Transport. They are the CCGS "St. Catharines" and the CCGS "Stonetown" (Fig. 1 and 2) (Atlantic Oceanographic Group, MS, 1961). Each ship remains on Station for a period of 6 weeks, and is then relieved by the alternate ship, thus maintaining a continuous watch. The chief purpose of the Station is to operate as a meteorological station for surface and upper-air observations, and as an air-sea rescue station.

The CCGS "St. Catharines" is equipped with deck and laboratory facilities required to make bathythermograph and oceanographic observations. Oceanographers from the Pacific Oceanographic Group accompany the ship on each patrol. The CCGS "Stonetown" is equipped with bathythermograph equipment only. The BT observations on both ships are made by members of the ship's crew.

Bathythermograph observations have been made at Station "P" since July 1952. A program of oceanographic observations was commenced in August 1956, and it has been increased and altered to suit the requirements for new and additional information. A series of 12 oceanographic stations is observed by the CCGS "St. Catharines" along the route between Station "P" and Swiftsure Bank (Fig. 3) during the trips to and from the station. Bathythermograph observations are made at intervals of 40 minutes of longitude along this route by both ships, when weather and time schedule permit.

At Station "P", a bathythermograph cast to 275 m is made at 3-hourly intervals throughout the patrol, coinciding with the regular meteorological observations. A surface salinity sample is obtained daily at 0000 G.M.T. These observations are made from both ships. On board the "St. Catharines", an oceanographic station to 400 m depth is observed once a week, and stations to 2000 m and 4200 m depths are observed three times each during the patrol. A new series of oceanographic stations has been observed since survey P-65-5 (Dec. 1965). At the beginning and end of each patrol, a series of 8 stations to 1500 m depth is observed at 40-mile intervals along a survey track which is 80 miles square, centered on the OS grid square. The stations are identified in the data record by the grid letter designator group in the STN entry of the master heading section.

In addition to the oceanographic observations, daily and weekly series of plankton collections and ocean productivity observations are made. Special observations are made for the U.S. Navy Radiological Defence Laboratory, San Francisco, Calif., and for the Scripps Institution of Oceanography.

CRUISE LOG, CCGS "ST. CATHARINES, SURVEY P-66-2

- May 27: departed from Esquimalt, B.C.; observed 12 oceanographic stations enroute to Station "P".
- May 30: rendezvous with CCGS "Stonetown"; commenced series of stations on 80-mile square.
- June 1: rough weather prevented completion of grid survey; returned to "on station" position.
- June 3: commenced regular Station "P" oceanographic observations program.
- June 30: commenced 80-mile square survey.
- July 4: relieved by "Stonetown", and proceeded on return trip to base; observed 12 oceanographic stations enroute.
- July 7: docked at Esquimalt base.

OBSERVATIONAL PROCEDURES

1. Samples at depths were obtained with Nansen reversing water sample bottles. Stations to 400 m depth were observed in one cast; stations to 1500 and 2000 m were observed in two casts: 10 to 400 m, and 500 m to the deepest depth; stations to 4200 m were observed in 2 casts: 10 to 600 m, and 800 m to the deepest depth.
2. Seawater temperatures (except 0 m) were measured with protected reversing thermometers of German or Japanese manufacture. The arrangement of the thermometers on the water sample bottles was as follows: 10 to 125 m, 2 protected thermometers at each depth; 150 to 250 m, 3 protected thermometers at each depth; 300 m to deepest bottle, 2 protected and one unprotected thermometer at each depth.
3. Surface samples (0 m) for salinity and dissolved oxygen determinations were obtained in a one-gallon plastic bucket. The surface temperature was measured in this sample with an armoured thermometer graduated in 0.5 C° intervals.
4. Water transparency observations were made with a white secchi disc of 30 cm diameter.
5. Station locations were determined by the officers of the watch, who also made the meteorological observations reported with the oceanographic data.

LABORATORY PROCEDURES

The salinity determinations of the oceanographic station samples and the surface samples collected during Survey P-66-2 were made with an inductive salinometer, Model 601 MK III, manufactured by Auto-Lab Industries Pty. Ltd., Sydney, Australia (Brown and Hamon, 1961). Most of the samples were analysed on board ship. The salinity data are the means of duplicate determinations whose "conductivity ratio" values fell within an acceptable range. The accuracy of the determinations at the 35‰ salinity level is stated to be $\pm 0.003\%$ (Brown and Hamon, 1961). The surface samples collected during the "Stonetown" Patrol No. 70 were analysed in the shore laboratory using the MK III conductivity salinometer. These data are from single determinations and have an accuracy range of $\pm 0.017\%$ at the 95% probability level (Strickland, MS, 1958).

The dissolved oxygen analyses were done in the shipboard laboratory by a modified Winkler method (Strickland and Parsons, 1965). The data are the means of duplicate determinations.

BATHYTHERMOGRAPH OBSERVATIONS

The BT traces obtained during Survey P-66-2 and Patrol No. 70 were processed in the BT-aperture card format of the CODC (Sauer, 1964). The bathythermograms presented in Section IV of the data record were reproduced from these BT-aperture cards. The consecutive number entered below each bathythermogram refers to an entry in Table 1 which lists the information concerning time/date, position, and associated meteorological conditions.

For Patrol No. 70 when the BT observations were taken on main synoptic hours (00, 06, 12, 18) or intermediate synoptic hours (03, 09, 15, 21) the meteorological data have been transferred to the BT-aperture cards from the No. 9 Marine Data Cards, supplied by the Meteorological Branch of the Department of Transport, Toronto.

PERSONNEL

The oceanographer on board CCGS "St. Catharines" during Survey P-66-2 was Mr. R.H. Bigham. The officers and crew of both weatherships made the BT observations, and the crew of the "St. Catharines" gave excellent assistance during the oceanographic station observations.

S E C T I O N I I

Description of the machine-generated data record

INTRODUCTION

This section applies to the machine processing phase of the data reduction and computation.

The oceanographic data previously recorded on CODC data summary forms, a sample of which is shown on the next page, are transferred to punch-cards for subsequent electronic data processing on an IBM 1620 computer, using CODC's OCEANS II program. In addition to computing routine derived quantities, the program carries out unit and format conversions, range checks, plausibility tests, internal editing, and if required, interpolation at standard oceanographic depths. When interpolations are carried out, additional derived values are computed.

After the data have been processed, the data record is prepared using an IBM 1401 computer configuration with the OCEAN REPORT III program, which provides for pre-edited high speed print-out on continuous direct-image masters. These masters subsequently yield the required volume of copies for distribution.

Provision has been made to enter an **"estimate of precision"** for each observed variable selected for interpolation at standard oceanographic depths. The precision depends on the instrument and/or technique used to determine the variable. A standard precision stated as a **standard deviation** (σ) can be determined for each instrument or technique under routine field conditions by making duplicate determinations of the variables for a homogeneous sample of sea water. These standard deviations are given for each cruise under **"GENERAL INFORMATION"** in section III of the data record.

The **measurement error estimate** of a specific observation in this data record, is stated as a multiple of the standard deviation derived as above, and entered in a column immediately to the right of the reported variable. In order to distinguish it from an additional decimal digit, the measurement error estimate is recorded alphabetically, (i.e., $1\sigma = A$, $2\sigma = B$, etc.; in this data record "A" is suppressed).

An option is provided with respect to the measurement of the salinity variable. If observed to three decimal digits, the last digit takes the place of the measurement error estimate.

In the past, a number of methods for both manual and machine interpolation have been developed. Studies and comparisons of the several methods have shown that no single method is universally acceptable. The manual methods are the most elaborate and flexible, but often require subjective decisions. In machine interpolation, all the present methods fail to yield acceptable results under some circumstances. Hence, it is considered necessary to qualify interpolated values by stating an **"interpolation error estimate"** derived from the particular interpolation formula used. There are two purposes in stating the error estimates; **first**, to give an indication of the quality of the interpolated data; **second**, to allow the oceanographer to redesign his observational procedures in order to reduce interpolation errors in future observations.

The interpolation scheme chosen for the OCEANS II program consists of a combination of two 3-point interpolations using the Lagrangian interpolation polynomial, as recommended by Rattray (1962). A parabola is fitted through three values of a given variable (T , S , O_2) considered as a function of depth. The two interpolation parabolas require a total of four points (observed depths). The middle points are common to both parabolas. The average of the two values obtained from the parabolas at standard depth is taken as the interpolated value, and a function of their difference as an estimate of the interpolation error.

This function combined with the **"measurement error estimate"** comprises the **"combined measurement and interpolation error estimate"**. It is expressed as a multiple of the standard deviation of measurement (σ) under normal routine field conditions by:

CANADIAN OCEANOGRAPHIC DATA CENTRE

[illegible][illegible]

$$\frac{\sigma_i}{\sigma} = \left\{ \frac{(\Delta V_i)^2}{\sigma^2} + \sum_{n=j-2}^{j+1} (\gamma_n)^2 \left(\frac{\sigma_n}{\sigma} \right)^2 \right\}^{1/2}, \text{ where}$$

σ = Standard deviation of the combined error estimates at standard oceanographic depth,

ΔV_i = the interpolation error estimate of variable "V" at standard oceanographic depth = $1/3 (V_{i_1} - V_{i_2})$

γ = Interpolation polynomial coefficient.

Z_j = Observed depth.

Z_i = Standard oceanographic depth, such that: $Z_{j-2} < Z_{j-1} < Z_i < Z_j < Z_{j+1}$

The integral part of the fraction $\frac{\sigma_i}{\sigma}$, if ≥ 2 , is reported in this Data Record following the interpolated variable. It represents the **combined measurement and interpolation error estimate**. In order to distinguish it from an additional decimal digit, it is recorded alphabetically (e.g.: 2 as "B", 3 as "C", etc.).

With respect to the interpolated value of the salinity variable if reported to three decimal digits, the **interpolation error estimate** is given only when $\frac{\sigma_i}{\sigma} \geq 2$ (the salinity is then recorded to two decimal places). If less than 2, the mean obtained from the two interpolation parabolas is reported to three decimal places.

EXPLANATION OF DATA RECORD HEADINGS

MASTER HEADINGS

(1) C-REF-NO	(6) YR	(11) DEPTH	(16) WAVES 1	(21) AIR T	(26) VIS
(2) CONS. NO	(7) MONTH	(12) MXSAMPD	(17) WAVES 2	(22) WET B	(27) STN
(3) LAT	(8) DAY	(13) NO. DPTH	(18) WND-DIR	(23) WW-CODE	
(4) LON	(9) HR	(14) W-COLOR	(19) WND-FCE	(24) CLD-TPE	
(5) MARSD SQ	(10) C/I	(15) W-TRNSP	(20) BARO	(25) CLD-AMT	(28) HW

(1) CRUISE REFERENCE NUMBER:

Assigned by the Institute. Commences with 001 at the beginning of each year (effective Jan. 1, 1963). Prior to that date the CRN was a number designated by CODC.

(2) CONSECUTIVE NUMBER:

Indicates the chronological order in which the stations were occupied.

(3) LATITUDE:

Indicate the position of the platform at the time of observation.

(4) LONGITUDE:

(5) MARSDEN SQUARE: Designates the geographic area code of the observation (see Marsden square chart).

(6) YEAR:

(7) MONTH:

(8) DAY:

(9) HOUR:

The time (Greenwich Mean Time) at which the surface environmental data were recorded. It is reported to tenths of hours (Table 1). If an "X" precedes the value for HOUR, (prior to Jan. 1, 1963) it indicates that the reported time is doubtful.

(10) COUNTRY/INSTITUTE:

The International Geophysical Year (IGY) Country Code/Institute Code - see Table 11.

(11) DEPTH:

The sounding reported in metres. If corrected, this is stated in the "GENERAL INFORMATION" chapter of section III. Charted depths are preceded by the letter "C".

(12) MAXIMUM

SAMPLING DEPTH: A code to indicate the deepest sampling depth (used for high speed sorting).

00 m - 50 m = 00

51 m - 150 m = 01

151 m - 250 m = 02

etc.

- (13) NUMBER OF DEPTHS: The number of levels observed (this is entered to initiate a computer safety check, guarding against the loss of punch-cards).
- (14) WATER COLOUR: A code based on the percentage of yellow (see table 2 and Note under FIELD "15" below).
- (15) WATER TRANSPARENCY: The depth in metres at which a Secchi disc (white disc, 30 cm. in diameter) just disappears from view, or the optical density expressed in percentage;
- NOTE: The "GENERAL INFORMATION" chapter in section III of the data record will state which method was used.
- (16) WAVES 1
($d_w d_w P_w H_w$ -code): The direction, period and height of the **wind-propagated** wave system. (See Tables 3, 4 and 5). Ref: World Meteorological Organization Codes 0885, 3155, 1555.
- (17) WAVES 2
($d_w d_w P_w H_w$ -code): The direction, period and height of the predominant **non-wind-propagated** wave system. (See Tables 3, 4 and 5). Ref: World Meteorological Organization Codes 0885, 3155, 1555.
- (18) WIND DIRECTION: The true direction to the nearest 10 degrees from which the wind is blowing (wind direction 990 means:—wind variable or direction unknown).
- (19) WIND FORCE
(WND-FCE): Beaufort notation (See Table 6).
- WIND SPEED
(WND-SPD): Anemometer reading reported in metres per second. Instrument height reported in "GENERAL INFORMATION" chapter of section III.
- (20) BAROMETER: The barometric pressure reported in millibars: the "GENERAL INFORMATION" chapter in Section III of the data record will state the type of instrument used.
- (21) AIR TEMPERATURE: In degrees Celsius.
- (22) WET BULB: In degrees Celsius.
- (23) ww CODE: Present Weather Code (See Table 7). Ref: WMO Code 4677
- (24) CLOUD TYPE: The type of predominating clouds (See Table 8). Ref: WMO Code 0500.
- (25) CLOUD AMOUNT: The sky coverage in eighths (See Table 9) Ref: WMO Code 2700
- (26) VISIBILITY: Visibility at the surface (See Table 10). Ref: WMO Code 4300.
- (27) STATION: A station reference number, assigned by the institute prior to, or during the survey.
- (28) HOURS AFTER HIGH WATER: Indicates the state of the tide for nearshore observations.

OBSERVED DATA HEADINGS

(1) GMT	(2) DEPTH	(3) TEMP	(4) SAL	(5) OXYGEN	(6) SGMT
(7) SOUND	(8) PO_4	(9) -P-	(10) NO_2	(11) NO_3	(12) SiO_2
				(13) pH.	

NOTE: Headings (1) to (7) will always be present. Headings (8) to (13) appear only when one or more additional chemical entries were made.

- (1) G.M.T.: The Greenwich Mean Time of (in-situ) thermometer inversion and sea water sample collection.
- When a multiple cast was initiated prior to and continued after midnight, the times indicated are uninterrupted by the change of day and appear beyond 24.0 hours. This will be accompanied by a statement: "MULTIPLE CAST CONTINUED NEXT DAY", which is printed following the last level of observed values.
- (2) DEPTH: The depth in metres at the reversal time of deepest cast.
- (3) TEMPERATURE: Temperatures from deepsea reversing thermometers, read to 0.01° C. Surface temperature measurement procedures are described in the chapter "OBSERVATION PROCEDURES" of section I, and/or the "GENERAL INFORMATION" chapter of section III. An alphabetical character following the temperature value represents the measurement error estimate referred to in the INTRODUCTION to this section.
- (4) SALINITY: Salinity as defined by: $S = 0.03 + 1.805 C1\%$, reported in:
- 1/100 parts per 1000, or
 - 1/1000 parts per 1000.
- In case a: an alphabetical character following the value is the measurement error estimate as referred to under (3).
- In case b: no error estimate indication is provided for, but an additional decimal digit takes its place.
- (5) OXYGEN: The concentration of dissolved oxygen expressed in millilitres per litre to 2 decimal places. An alphabetical character following the value is the measurement error estimate as referred to under (3).
- (6) SIGMA-T: The specific gravity anomaly as defined by: $(\text{Specific gravity} - 1) \times 10^3$ (e.g., σ_t reported as 2456, reads 24.56, and corresponds to a specific gravity of 1.02456).
- (7) SOUND: The sound velocity is reported in m/sec. to 1 decimal place (e.g., 1437.9 m/sec.). The computation is carried out using Wilson's formula (1960), expressed in terms of temperature, salinity and total pressure.

- (8) PO_4 Phosphate-Phosphorus reported to hundredths of microgram-atoms per litre.
- (9) -P- Total Phosphorus reported to hundredths of microgram-atoms per litre.
- (10) NO_2 Nitrite-Nitrogen reported to hundredths of microgram-atoms per litre — No dissolved nitrogen included —
- (11) NO_3 Nitrate-Nitrogen reported to tenths of microgram-atoms per litre.
- (12) SiO_2 Silicate-Silicon reported in whole microgram-atoms per litre.
- (13) pH The pH value.

NOTE: "TRC" (trace) is reported when a chemical entry has a value less than the standard deviation of measurement for that particular variable.

INTERPOLATED DATA HEADINGS

(1) DEPTH	(2) TEMP	(3) SAL	(4) OXYGEN	(5) SGMT	(6) SOUND
(7) DELTA-D	(8) POT-EN	(9) SVA.			

- (1) DEPTH: Standard Oceanographic Depth in whole metres, as well as additional depths: 125, 175, 225, 3500, 4500, 5500, 6500, 7500, 8500, 9500.
- (2) TEMPERATURE: Interpolated value at standard depth, followed by the **combined measurement and interpolation error estimate** (see "INTRODUCTION" to section II of the data record).
- (3) SALINITY:
- A. The reported salinity values are measured to three decimal places.
 - (i) the interpolation error estimate is less than twice the standard deviation of measurement
 - the interpolated value is reported to three decimal places (e.g., 30.139).
 - (ii) the interpolation error estimate is equal to or greater than twice the standard deviation of measurement.
 - the interpolated value is reported to two decimal places, and followed by the **interpolation error estimate** (e.g., 29.23 C).
 - B. The reported salinity values are measured to two decimal places and followed by the measurement error estimate.
 - the interpolated value is reported to two decimal places, and followed by the **combined measurement and interpolation error estimate** (e.g., 30.59 B).
- (4) OXYGEN: Interpolated value at standard depth, followed by the **combined measurement and interpolation error estimate** (see "Introduction" to section II of the data record).

(5) SIGMA-T: Computed from temperature and salinity values at standard oceanographic depth.

(6) SOUND VELOCITY: Computed from temperature, salinity and total pressure values at standard oceanographic depth, using Wilson's formula (1960).

(7) DELTA-D: The geo-potential anomaly as defined by:

$$\Delta D = \int_0^P \delta dp$$

ΔD is expressed in dynamic metres (10^5 ergs/gram) and recorded to three decimal places (e.g., 2.345 dyn. metres).

(8) POTENTIAL ENERGY ANOMALY:

The Potential energy anomaly χ as defined by:

$$\chi = \frac{1}{g} \int_0^P p \delta dp = \int_0^Z \rho p \delta dz$$

χ is expressed in units of 10^8 ergs/cm² and recorded to two decimal places (e.g., 116.44).

(9) SPECIFIC VOLUME ANOMALY:

The specific volume anomaly as defined by:

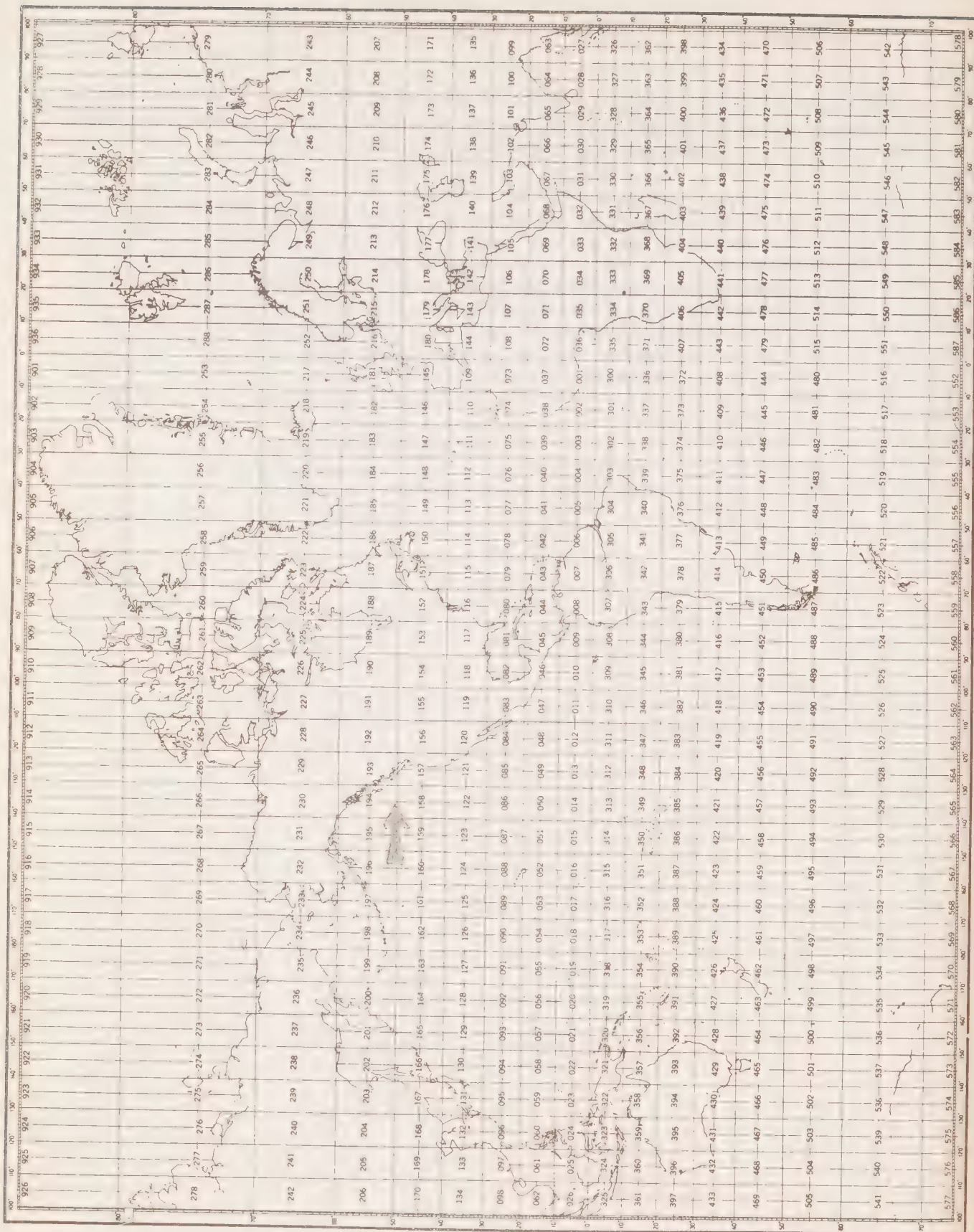
$$\delta = \alpha - \alpha_{35.0.P}$$

δ is expressed in ml/gr, and conventionally reported as $10^6 \delta$, to one decimal place (i.e., δ reported as 1234, reads 123.4, and corresponds to a specific volume anomaly of 0.001234 ml/gr.).

SPECIAL CHARACTERS

‡ (Record mark): is used to indicate inconsistencies which are printed in an area below the "Observed Data". A corresponding record mark at the extreme left hand side indicates the level at which the inconsistency occurs

* (Asterisk): this character may occur in the **interpolated** portion of the data record. It is printed at the extreme left hand side of the page, when three or more standard depth levels fall within any one **observed depth interval**. The **third**, and all consequent levels are preceded by the asterisk to indicate that more than **two** machine interpolations were carried out, utilizing the same set of interpolation parabolas. The asterisk will also appear when the last standard depth is an extrapolation and there are at least two interpolations between the last two observed depths.



Marsden Square Chart

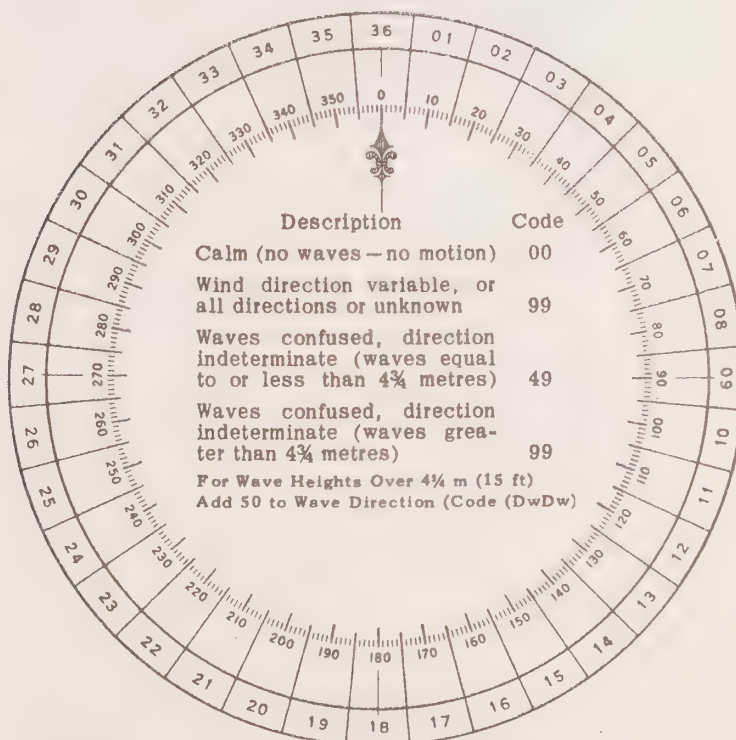
Table 1
CONVERSION
MINUTES TO $\frac{1}{10}$ HRS.

Minutes	Tenths Hrs.
00-03	0
04-08	1
09-15	2
16-20	3
21-27	4
28-32	5
33-39	6
40-44	7
45-51	8
52-56	9
57-59	0 (next HR.)

Table 2
WATER COLOR CODE
Based on Percentage Yellow

Code:	Description
00	Deep Blue
10	Blue
20	Greenish Blue
30	Bluish Green
40	Green
50	Light Green
60	Yellowish Green
70	Yellow Green
80	Green Yellow
90	Greenish Yellow
99	Yellow

Table 3. DIRECTION CODE (dd)



NOTE:

Always use the true direction from which the wind is blowing, or the direction from which Waves I (sea), or Waves II (swell) come.

Table 4. PERIOD OF THE WAVES (P_w)
(Measure to the Nearest Second)

Code:	Period in Seconds:	Code:	Period in Seconds:
2	5 sec. or less	8	16 or 17 sec.
3	6 or 7 sec.	9	18 or 19 sec.
4	8 or 9 sec.	0	20 or 21 sec.
5	10 or 11 sec.	1	Over 21 sec.
6	12 or 13 sec.	X	Calm, or period not determined
7	14 or 15 sec.		

Table 5. HEIGHT OF THE WAVES (H_w)

- The average value of the wave height (vertical distance between trough and crest) is reported, as obtained from the larger well formed waves of the wave system being observed.
- Each code figure provides for reporting a range of heights. For example: 1 = $\frac{1}{4}$ m (1 ft) to $\frac{3}{4}$ m ($2\frac{1}{2}$ ft); 5 = $2\frac{1}{4}$ m (7 ft) to $2\frac{3}{4}$ m (9 ft); 9 = $4\frac{1}{4}$ m ($13\frac{1}{2}$ ft) to $4\frac{3}{4}$ m (15 ft), etc.
- If a wave height comes exactly midway between the heights corresponding to two code figures, the lower code figure is reported; e.g. a height of $2\frac{3}{4}$ m is reported by code figure 5.

Code			Code
0	Less than ¼ m (1 ft)		0 5 m (16 ft)
1	½ m (1½ ft)		1 5½ m (17½ ft)
2	1 m (3 ft)		2 6 m (19 ft)
3	1½ m (5 ft)		3 6½ m (21 ft)
4	2 m (6½ ft)	Add	4 7 m (22½ ft)
5	2½ m (8 ft)	50	5 7½ m (24 ft)
6	3 m (9½ ft)	to	6 8 m (25½ ft)
7	3½ m (11 ft)	Dw Dw	7 8½ m (27 ft)
8	4 m (13 ft)		8 9 m (29 ft)
9	4½ m (14 ft)		9 9½ m (30½ ft) or more
x	Height not determined		

Add
50
to
Dw Dw

Table 6. WIND FORCE CODE

The Beaufort force of the wind is estimated from the appearance of the sea surface, according to the table below. This table is only intended as a guide to show roughly what may be expected on the open sea, remote from land. Factors which must be taken into account are the "lag" effect between the wind increasing and the sea getting up; and the influence of "fetch", depth, swell, heavy rain and tide effect on the appearance of the sea. Estimation of the wind force by this method becomes unreliable in shallow water or when close inshore, owing to the tidal effect and the shelter provided by the land.

Code	Appearance of sea if fetch and duration of the blow have been sufficient to develop the sea fully	Description
00	Sea like a mirror	Calm
01	Ripples with the appearance of scales are formed, but without foam crests.	Light Air
02	Small wavelets; crests have a glassy appearance and do not break.	Light Breeze
03	Large wavelets; crests begin to break; foam of glassy appearance; perhaps scattered white horses.	Gentle Breeze
04	Small waves, becoming longer; fairly frequent white horses.	Moderate breeze
05	Moderate waves; many white horses are formed (chance of some spray)	Fresh Breeze
06	Large waves; white foam crests everywhere (probably some spray)	Strong Breeze
07	Sea heaps up and white foam from breaking waves begins to be blown in streaks along the direction of the wind.	Near Gale
08	Moderately high waves; edges of crests begin to break into the spindrift; foam is blown in well-marked streaks along the direction of the wind.	Gale
09	High waves; dense streaks of foam along wind; crests begin to topple, tumble and roll over; spray may affect visibility.	Strong Gale
10	Very high waves with long overhanging crests; foam in great patches blown in dense white streaks along wind; sea surface takes a white appearance; tumbling becomes heavy and shock-like; visibility affected.	Storm
11	Exceptionally high waves (medium sized ships may be lost to view behind waves); sea covered with long white patches of foam lying along the wind; everywhere edges of crests are blown into froth; visibility affected.	Violent Storm
12	Air is filled with foam and spray; sea completely white with driving spray; visibility seriously affected.	Hurricane

Table 7. PRESENT WEATHER

W.W. CODE

NO PRECIPITATION ON STATION AT TIME OF OBSERVATION

Code figure ww			
No meteors except photometeors	00	Cloud development not observed or not observable	
	01	Clouds generally dissolving or becoming less developed	
	02	State of sky on the whole unchanged	
Haze, dust, sand or smoke	03	Clouds generally forming or developing	
	04	Visibility reduced by smoke, e.g. veldt or forest fires, industrial smoke or volcanic ashes	
	05	Haze	
	06	Widespread dust in suspension in the air, not raised by wind at or near the station at the time of observation	
	07	Dust or sand raised by wind at or near the station at the time of observation, but no well developed dust whirl(s) or sand whirl(s), and no duststorm or sandstorm seen	
	08	Well developed dust whirl(s) or sand whirl(s) seen at or near the station during the preceding hour or at the time of observation, but no dustorm or sandstorm	
	09	Duststorm or sandstorm within sight at the time of observation, or at the station during the preceding hour	
	10	Mist	
	11	Patches of	shallow fog or ice fog at the station, whether on land or sea, not deeper than about 2 metres on land or 10 metres at sea
	12	More of less continuous	
	13	Lightning visible, no thunder heard	
	14	Precipitation within sight, not reaching the ground or the surface of the sea	
	15	Precipitation within sight, reaching the ground or the surface of the sea, but distant (i.e. estimated to be more than 5 km) from the station	
	16	Precipitation within sight, reaching the ground or the surface of the sea, near to, but not at the station	
	17	Thunderstorm, but no precepitation at the time of observation	
	18	Squalls	at or within sight of the station during the preceding hour or at the time of observation
	19	Funnel clouds	
ww = 20 - 29			
		Precipitation, fog, ice fog or thunderstorm at the station during the preceding hour but not at the time of observation	
	20	Drizzle (not freezing) or snow grains	
	21	Rain (not freezing)	
	22	Snow	
	23	Rain and snow or ice pellets, type (a)	
	24	Freezing drizzle or freezing rain	
	25	Shower(s) of rain	
	26	Shower(s) of snow, or of rain and snow	
	27	Shower(s) of hail, or of rain and hail	
	28	Fog or ice fog	
	29	Thunderstorm (with or without precipitation)	
ww = 30 - 39			
		Duststorm, sandstorm, drifting or blowing snow	
	30	Slight or moderate dust-storm or sand-storm	{ -has decreased during the preceding hour
	31		
	32	Severe dust-storm or sand-storm	{ -no appreciable change during the preceding hour
	33		
	34		{ -has begun or has increased during the preceding hour
	35		
	36	Slight or moderate blowing snow	{ generally low (below eye level)
	37	Heavy drifting snow	
	38	Slight or moderate blowing snow	{ generally high (above eye level)
	39	Heavy blowing snow	
ww = 40 - 49			
		Fog or ice fog at the time of observation	
	40	Fog or ice fog at a distance at the time of observation, but not at the station during the preceding hour, the fog or ice fog extending to a level above that of the observer	
	41	Fog or ice fog in patches	
	42	Fog or ice fog, sky visible	{ has become thinner during the preceding hour
	43	Fog or ice fog, sky invisible	
	44	Fog or ice fog, sky visible	{ no appreciable change during the preceding hour
	45	Fog or ice fog, sky invisible	
	46	Fog or ice fog, sky visible	{ has begun or has become thicker during the preceding hour
	47	Fog or ice fog, sky invisible	
	48	Fog, depositing rime, sky visible	
	49	Fog, depositing rime, sky invisible	

NO PRECIPITATION ON STATION AT TIME OF OBSERVATION

PRECIPITATION ON STATION AT TIME OF OBSERVATION

ww = 50 - 59 Drizzle		ww = 80 - 99 Showery precipitation, or precipitation with current or recent thunderstorm	
50	Drizzle, not freezing, intermittent	80	Rain shower(s), slight
51	Drizzle, not freezing, continuous	81	Rain shower(s), moderate or heavy
52	Drizzle, not freezing, intermittent	82	Rain shower(s), violent
53	Drizzle, not freezing, continuous	83	Shower(s) of rain and snow mixed, slight
54	Drizzle, not freezing, intermittent	84	Shower(s) of rain and snow mixed, moderate or heavy
55	Drizzle, not freezing, continuous	85	Snow shower(s), slight
56	Drizzle, freezing, slight	86	Snow shower(s), moderate or heavy
57	Drizzle, freezing, moderate or heavy (dense)	87	Shower(s) of snow pellets or ice pellets, type (b), with or without rain or rain and snow mixed
58	Drizzle and rain, slight	88	Shower(s) of hail, with or without rain or rain and snow mixed, not associated with thunder
59	Drizzle and rain, moderate or heavy	89	Slight rain at time of observation
ww = 60 - 69 Rain		90	Moderate or heavy rain at time of observation
60	Rain, not freezing, intermittent	91	Slight snow, or rain and snow mixed or hail at time of observation
61	Rain, not freezing, continuous	92	Moderate or heavy snow, or rain and snow mixed or hail at time of observation
62	Rain, not freezing, intermittent	93	Thunderstorm, slight or moderate, without hail, but with rain and/or snow at time of observation
63	Rain, not freezing, continuous	94	Thunderstorm, slight or moderate, with hail at time of observation
64	Rain, not freezing, intermittent	95	Thunderstorm, heavy, without hail, but with rain and/or snow at time of observation
65	Rain, not freezing, continuous	96	Thunderstorm, combined with duststorm or sandstorm at time of observation
66	Rain, freezing, slight	97	Thunderstorm, heavy, with hail at time of observation
67	Rain, freezing, moderate or heavy	98	
68	Rain or drizzle and snow, slight	99	
69	Rain or drizzle and snow, moderate or heavy		
70 - 79 Solid precipitation not in showers			
ww			
70	Intermittent fall of snow flakes		
71	Continuous fall of snow flakes		
72	Intermittent fall of snow flakes		
73	Continuous fall of snow flakes		
74	Intermittent fall of snow flakes		
75	Continuous fall of snow flakes		
76	Ice prisms (with or without fog)		
77	Snow grains (with or without fog)		
78	Isolated starlike snow crystals (with or without fog)		
79	Ice pellets, type (a)		

Table 8. CLOUD TYPE CODE

Code	Cloud Type	Code	Cloud Type
0	Cirrus Ci	5	Nimbostratus Ns
1	Cirrocumulus Cc	6	Stratocumulus Sc
2	Cirrostratus Cs	7	Stratus St
3	Alto cumulus Ac	8	Cumulus Cu
4	Altostratus As	9	Cumulonimbus Cb
X	Cloud not visible owing to darkness, fog, duststorm, sandstorm, or other analogous phenomena		

Table 9. CLOUD AMOUNT CODE

Code	Cloud Cover	Code	Cloud Cover
0	0	6	6 oktas
1	1 okta or less, but not zero	7	7 oktas or more, but not 8 oktas
2	2 oktas	8	8 oktas
3	3 oktas	9	Sky obscured, or cloud amount cannot be estimated
4	4 oktas		
5	5 oktas		

Note: 1 okta = $\frac{1}{8}$ of the sky covered

Table 10. VISIBILITY

Code	Estimate of hor. Visibility
90	Less than 50 metres (less than 55 yards)
91	50-200 metres (approx. 55-220 yards)
92	200-500 metres (approx. 220-550 yards)
93	500-1,000 metres (approx. 550 yards- $\frac{1}{2}$ n.m.)
94	1-2 km (approx. $\frac{3}{4}$ -1 n.m.)
95	2-4 km (approx. 1-2 n.m.)
96	4-10 km (approx. 2-6 n.m.)
97	10-20 km (approx. 6-12 n.m.)
98	20-50 km (approx. 12-30 n.m.)
99	50 km or more (30 n.m. or more)

Note: n.m. = nautical mile

TABLE 11. INSTITUTE CODE

Code	Institute
01	Atlantic Oceanographic Group
02	Pacific Oceanographic Group
03	Biological Station, St. Andrews, N.B.
04	Arctic Biological Station, Ste. Anne de Bellevue, P.Q.
05	Biological Station, St. John's Nfld.
06	Station de Biologie Marine, Grande Riviere, P.Q.
07	Marine Sciences Branch, Central Region
08	Naval Research Establishment, Dartmouth, N.S.
09	Pacific Naval Laboratory, Esquimalt, B.C.
10	Bedford Institute of Oceanography, (MBS, Atlantic Region)
11	Polar Continental Shelf Project
12	Great Lakes Institute
13	Institute of Oceanography, University of British Columbia
14	Institute of Oceanography, Dalhousie University
15	Marine Sciences Branch, Pacific Region
16	Department of Transport
17	Marine Sciences Centre, McGill University
18	RCN East Coast
19	RCN West Coast
20	Ontario Water Resources Commission
21	Dept. of National Health and Welfare
22	Inland Waters Branch, Dept. of Energy, Mines and Resources.

SECTION III

Serial oceanographic data

GENERAL INFORMATION

<u>Institute:</u>	Pacific Oceanographic Group Nanaimo, B.C.
<u>Observation Platform:</u>	CCGS "St. Catharines"
<u>Vessel's cruising speed:</u>	13 knots
<u>Total number of stations occupied:</u>	47
<u>Anemometer height above sea level:</u>	19 metres
<u>Water transparency:</u>	Secchi Disc.
<u>Barometer readings:</u>	Aneroid Barometer (corrected)
<u>Air temperature:</u>	Sling Psychrometer
<u>Wet bulb temperature:</u>	Sling Psychrometer
<u>Surface sea water temperature:</u>	Bucket sample (deck thermometer)
<u>Depth to bottom:</u>	U.S. Coast & Geodetic Survey Chart 8500

The following Standard Deviations were used to express both measurement and interpolation error estimates:

Temperature	0.02
Salinity	0.003
Oxygen	0.03

C-REF-NO 004	YR 1966	DEPTH 115	WAVES 1 2932	AIR T 09.9	VIS 7
CONS. NO 001	MONTH 5	MXSAMPD 01	WAVES 2 2932	WET B 07.7	STN 001
LAT 48-33 N	DAY 27	NO.DPTH 8	WND-DIR 290	WW-CODE 02	
LON 125-33 W	HR 23.9	W-COLOR 30	WND-SPD 12	CLD-TPE 6	
MARSD SQ 157	C/I 1802	W-TRNSP 18	BARO 1024.0	CLD-AMT 2	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
239	0000	103 B	31517		2421	14870
239	0009	0972	31604		2437	14852
239	0018	0923	32008		2476	14840
239	0028	0857	32333		2512	14821
239	0046	0723	33277		2605	14784
239	0069	0703 B	33439		2621	14782
239	0092	0662 B	33721		2648	14774
239	0115	0656	33747		2651	14775

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1030 B	31517		2421	14870	0000	00000	3720
0010	0967	3164 B		2441	14850	0036	00002	3529
0020	0911	3207 C		2483	14836	0070	00007	3127
0030	0840	3244 G		2523	14816	0099	00014	2750
0050	0714 B	3334 I		2612	14782	0146	00033	1912
0075	0692 B	3352 D		2629	14780	0193	00062	1755
0100	0665 C	3370 I		2646	14776	0235	00100	1592

C-REF-NO 004	YR 1966	DEPTH C 109	WAVES 1 1922	AIR T 09.4	VIS 7
CONS. NO 002	MONTH 5	MXSAMPD 01	WAVES 2 1922	WET B 06.6	STN 002
LAT 48-38 N	DAY 28	NO.DPTH 7	WNO-DIR 190	WW-CODE C3	
LON 126-00 W	HR 01.9	W-COLOR	WNO-SPD 10	CLD-TPE 4	
MARSD SQ 157	C/I 1802	W-TRNSP	BARO 1023.0	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
019	0000	109 B	32261		2468	14901
019	0010	1033	32232		2476	14882
019	0019	0999	32245		2483	14871
019	0029	0798	32672		2547	14803
019	0048	0740	32987		2580	14788
019	0071	0694	33711		2643	14783
019	0095	0663 B	33894		2662	14777

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1090 B	32261		2468	14901	0000	00000	3267
0010	1033	32232		2476	14882	0032	00002	3197
0020	0980 B	3228 C		2489	14865	0064	00006	3078
0030	0789 B	3269 C		2550	14800	0092	00013	2494
0050	0735	3305 D		2586	14787	0139	00032	2156
0075	0686	3362 I		2638	14779	0187	00062	1669

C-REF-NO 004	YR 1966	DEPTH C 1300	WAVES 1 28XX	AIR T 09.4	VIS 7
CONS. NO 003	MONTH 5	MXSAMPD 12	WAVES 2 28XX	WET B 06.6	STN 003
LAT 48-42 N	DAY 28	NO.DPTH 19	WND-DIR 280	WW-CODE 02	
LON 126-40 W	HR 04.6	W-COLOR	WND-SPD 05	CLD-TPE 8	
MARSD SQ 157	C/I 1802	W-TRNSP	BARO 1023.0	CLD-AMT 2	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
046	0000	103 B	31967		2456	14876
046	0010	1045	31956		2453	14883
046	0019	1002	31975		2461	14869
046	0029	0868	32377		2514	14826
046	0049	0790	32483		2534	14801
046	0073	0725	32563		2549	14780
046	0098	0705	32887		2577	14781
046	0122	0702 B	33465		2623	14791
046	0147	0715	33750		2644	14804
046	0171	0686	33895		2659	14799
046	0195	0658	33936		2666	14792
046	0245	0619	33976		2674	14785
046	0294	0582	33998		2681	14779
046	0394	0513	34046		2693	14768
051	0491	0474	34128		2704	14769
051	0590	0441	34203		2713	14772
051	0790	0394	34319		2727	14787
051	0990	0344	34403		2739	14801
051	1190	0295	34468		2749	14814

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1030 B	31967		2456	14876	0000	00000	3387
0010	1045	31956		2453	14883	0034	00002	3421
0020	0989	3201 C		2466	14865	0068	00007	3293
0030	0861	3239 C		2516	14823	0099	00015	2818
0050	0787	32485		2534	14799	0154	00037	2648
0075	0722	32579		2551	14780	0218	00078	2495
0100	0704	3294 C		2581	14781	0278	00131	2209
0125	0704 B	33511		2626	14793	0326	00188	1784
0150	0712	33774		2646	14804	0370	00248	1603
0175	0681	33906		2660	14797	0409	00312	1467
0200	0653	33942		2667	14791	0445	00382	1408
0225	0633	33965		2671	14787	0480	00458	1368
0250	0615	33979		2675	14784	0515	00541	1339
0300	0577	34000		2681	14778	0581	00727	1281
0400	0510	34051		2693	14767	0704	01170	1174
0500	0471	34135		2705	14769	0818	01693	1076
0600	0438	34210		2714	14773	0922	02281	0992

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0700	0414	34272		2721	14780	1020	02928	0927
0800	0392	34324		2728	14788	1110	03628	0872
1000	0342	34409		2740	14802	1276	05153	0768
1200	0292	34470		2749	14815	1423	06805	0679

C-REF-NO 004	YR 1966	DEPTH C 2499	WAVES 1 2822	AIR T 09.4	VIS 7
CONS. NO 004	MONTH 5	MXSAMPD 23	WAVES 2 2722	WET B 07.7	STN 004
LAT 48-46 N	DAY 28	NO.DPTH 22	WND-DIR 280	WW-CODE 03	
LON 127-40 W	HR 09.2	W-COLOR	WND-SPD 05	CLD-TPE 8	
MARSD SQ 157	C/I 1802	W-TRNSP	BARO 1022.0	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
092	0000	103 B	32084		2465	14878
092	0010	1037	32043		2461	14881
092	0020	1037	32045		2461	14883
092	0030	1033	32044		2461	14883
092	0050	0911	32290		2500	14844
092	0074	0756	32610		2548	14793
092	0099	0795	33371		2602	14822
092	0124	0769	33600		2624	14819
092	0149	0742	33793		2643	14816
092	0174	0718	33866		2652	14811
092	0199	0683	33912		2661	14802
092	0248	0636	33947		2670	14792
092	0298	0592	33976		2678	14783
092	0398	0516	34035		2691	14769
098	0486	0478	34103		2701	14769
098	0584	0451	34184		2711	14775
098	0781	0390	34293		2726	14784
098	0976	0341	34390		2738	14797
098	1170	0300	34456		2747	14813
098	1460	0258	34513		2756	14844
098	1949	0195	34595		2767	14901
098	2343	0177	34629		2771	14961

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1030 B	32084		2465	14878	0000	00000	3300
0010	1037	32043		2461	14881	0033	00002	3343
0020	1037	32045		2461	14883	0067	00007	3344
0030	1033	32044		2461	14883	0101	00015	3340
0050	0911	32290		2500	14844	0164	00041	2972
0075	0756	3264 B		2551	14794	0233	00064	2494
0100	0795	33386		2604	14822	0289	00134	1997
0125	0768	33609		2625	14819	0337	00189	1798
0150	0741	33797		2644	14815	0380	00250	1625
0175	0717	33868		2653	14811	0420	00316	1543
0200	0682	33913		2661	14802	0458	00389	1467
0225	0656	33936		2666	14796	0494	00468	1420
0250	0634	33948		2670	14792	0530	00554	1385
0300	0590	33977		2678	14783	0598	00746	1315

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0400	0515	34036		2692	14769	0724	01197	1191
0500	0474	34115		2703	14770	0840	01728	1094
0600	0446	34194		2712	14776	0946	02327	1013
0700	0415	34253		2720	14780	1045	02986	0942
0800	0385	34303		2727	14785	1137	03694	0879
1000	0335	34400		2739	14799	1303	05225	0767
1200	0295	34463		2748	14816	1451	06886	0688
1500	0252	34521		2757	14848	1649	09620	0613
2000	0196 B	34598		2767	14910	1935	14718	0513

C-REF-NO 004	YR 1966	DEPTH C 2529	WAVES 1 3022	AIR T 07.7	VIS 7
CONS. NO 005	MONTH 5	MXSAMPD 04	WAVES 2 3033	WET B 05.5	STN 005
LAT 48-51 N	DAY 28	NO.DPTH 14	WND-DIR 300	WW-CODE 02	
LON 128-40 W	HR 14.0	W-COLOR	WND-SPD 07	CLD-TPE 6	
MARSD SQ 157	C/I 1802	W-TRNSP	BARO 1023.0	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
140	0000	095 B	32498		2510	14853
140	0009	0957	32409		2502	14856
140	0018	0958	32415		2503	14858
140	0028	0957	32426		2504	14860
140	0046	0828	32485		2528	14815
140	0069	0719	32626		2555	14778
140	0092	0716	33057		2589	14786
140	0116	0722 B	33477		2621	14798
140	0140	0720	33690		2638	14804
140	0164	0705	33807		2649	14804
140	0188	0677	33850		2657	14797
140	0238	0637 B	33922		2668	14790
140	0287	0595	33967		2676	14782
140	0387	0523	34012		2689	14770

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0950 B	32498		2510	14853	0000	00000	2868
0010	0957	32407		2502	14857	0029	00002	2948
0020	0960	32416		2502	14859	0059	00006	2947
0030	0946 B	32430		2506	14856	0088	00014	2917
0050	0803	3250 B		2533	14806	0144	00036	2662
0075	0713 B	3273 D		2563	14778	0208	00077	2373
0100	0718	3321 B		2601	14790	0263	00126	2023
0125	0722	3358 B		2629	14801	0311	00180	1761
0150	0715	33749		2643	14805	0353	00240	1626
0175	0693	33832		2653	14801	0393	00306	1538
0200	0666	33870		2660	14795	0431	00379	1479
0225	0646 B	33906		2665	14792	0468	00459	1429
0250	0627 B	33935		2670	14788	0503	00546	1386
0300	0587 B	33980		2679	14781	0571	00737	1309

C-REF-NO 004	YR 1966	DEPTH C 2929	WAVES 1 2822	AIR T 09.4	VIS 7
CONS. NO 006	MONTH 5	MXSAMPD 14	WAVES 2 2822	WET B 07.2	STN 006
LAT 49-02 N	DAY 28	NO.DPTH 20	WND-DIR 280	WW-CODE 02	
LON 130-40 W	HR 20.8	W-COLOR 10	WND-SPD 07	CLD-TPE 6	
MARSD SQ 158	C/I 1802	W-TRNSP 13	BARO 1025.0	CLD-AMT 5	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
208	0000	102 B	32599		2507	14880
208	0010	0947	32539		2514	14854
208	0019	0940	32533		2515	14853
208	0029	0935	32528		2515	14853
208	0048	0804	32581		2539	14807
208	0072	0713	32670		2559	14777
208	0096	0709	33287		2608	14787
208	0120	0718	33579		2630	14799
208	0144	0717	33763		2644	14805
208	0169	0703	33837		2652	14804
208	0193	0687	33892		2659	14802
208	0241	0648 B	33937		2667	14796
208	0290	0615	33963		2674	14791
208	0387	0533	34012		2688	14774
213	0454	0499	34053		2695	14772
213	0550	0453	34130		2706	14770
213	0745	0393	34265		2723	14779
213	0939	0351	34367		2735	14795
213	1136	0308	34447		2746	14810
213	1432	0254 C	34505		2755	14838

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
0000	1020 B	32599		2507	14880	0000	00000	2903
0010	0947	32539		2514	14854	0029	00001	2835
0020	0940	32532		2515	14854	0057	00006	2831
0030	0929	32530		2516	14851	0086	00013	2818
0050	0793	3258 B		2541	14803	0140	00035	2588
0075	0710	3274 E		2565	14777	0202	00075	2358
0100	0710	3335 B		2613	14789	0256	00122	1908
0125	0719	33626		2633	14800	0302	00175	1718
0150	0714	33787		2647	14805	0343	00233	1596
0175	0699	33853		2654	14804	0383	00299	1531
0200	0681	33902		2660	14802	0421	00372	1474
0225	0661 B	33928		2665	14798	0457	00451	1432
0250	0642 B	33943		2669	14795	0493	00538	1400
0300	0606	33968		2675	14789	0562	00733	1342
0400	0526	34019		2689	14773	0691	01194	1216
0500	0476	34089		2700	14770	0809	01736	1116

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0435	34168		2711	14771	0917	02343	1020
0700	0404	34237		2720	14775	1016	03003	0942
0800	0380	34297		2727	14783	1108	03712	0879
1000	0337	34395		2739	14799	1275	05249	0773
1200	0297	34464		2748	14816	1423	06918	0689

C-REF-NO 004	YR 1966	DEPTH C 3275	WAVES 1 3023	AIR T 08.3	VIS 7
CONS. NO 007	MONTH 5	MXSAMPD 04	WAVES 2 3033	WET B 06.6	STN 007
LAT 49-10 N	DAY 29	NO.DPTH 14	WND-DIR 300	WW-CODE 02	
LON 132-40 W	HR 04.8	W-COLOR	WND-SPD C7	CLD-TPE 6	
MARSD SQ 158	C/I 1802	W-TRNSP	BARO 1026.0	CLD-AMT 5	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
048	0000	085 B	32529		2528	14816
048	0010	0849	32517		2528	14817
048	0020	0842	32509		2528	14816
048	0029	0832	32509		2530	14814
048	0049	0692	32530		2551	14763
048	0073	0606	32560		2564	14733
048	0098	0589	32646		2573	14731
048	0122	0574	33085		2609	14735
048	0147	0559	33450		2640	14738
048	0171	0545	33610		2654	14738
048	0195	0516	33708		2666	14732
048	0244	0470	33775		2676	14721
048	0293	0433	33829		2684	14715
048	0391	0415	33971		2697	14725

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0850 B	32529		2528	14816	0000	00000	2697
0010	0849	32517		2528	14817	0027	00001	2706
0020	0842	32509		2528	14816	0054	00006	2703
0030	0826	32510		2530	14812	0081	00013	2682
0050	0687	32531		2552	14761	0133	00034	2482
0075	0603	3256 B		2564	14732	0194	00072	2362
0100	0588	3268 B		2576	14731	0252	00124	2258
0125	0572	33137		2614	14735	0305	00184	1899
0150	0558	33477		2642	14738	0349	00247	1630
0175	0541	33630		2657	14737	0389	00312	1499
0200	0511	33719		2667	14730	0425	00382	1401
0225	0486	3376 B		2673	14725	0460	00458	1345
0250	0465	33782		2677	14720	0493	00539	1308
0300	0432	3384 B		2686	14716	0557	00719	1230
0400	0416	33984		2698	14727	0676	01142	1118

C-REF-NO 004 YR 1966 DEPTH C 3549 WAVES 1 3022 AIR T 07.7 VIS 6
 CONS. NO 008 MONTH 5 MXSAMPD 04 WAVES 2 3023 WET B 05.5 STN 008
 LAT 49-17 N DAY 29 NO.DPTH 14 WND-DIR 300 WW-CODE C2
 LON 134-40 W HR 11.2 W-COLOR WND-SPD 07 CLD-TPE 7
 MARSD SQ 158 C/I 1802 W-TRNSP BARO 1027.0 CLD-AMT 8 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
112	0000	080 B	32562		2538	14798
112	0010	0811	32498		2532	14803
112	0019	0811	32498		2532	14804
112	0029	0801	32499		2533	14802
112	0048	0754	32553		2544	14787
112	0072	0602	32593		2567	14732
112	0096	0592	32641		2572	14732
112	0121	0582	32897		2594	14736
112	0145	0556	33343		2632	14735
112	0169	0541	33544		2650	14735
112	0193	0529	33688		2662	14736
112	0242	0474	33768		2675	14723
112	0290	0452	33812		2681	14722
112	0387	0403	33936		2696	14719

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0800 B	32562		2538	14798	0000	00000	2602
0010	0811	32498		2532	14803	0026	00001	2666
0020	0810	32498		2532	14804	0053	00006	2667
0030	0800	32501		2534	14802	0080	00012	2651
0050	0741 B	32557		2546	14783	0132	00034	2533
0075	0597 B	32593		2568	14730	0193	00072	2328
0100	0591	32668		2575	14733	0251	00124	2269
0125	0578	3297 D		2600	14735	0305	00186	2028
0150	0552	3340 B		2637	14735	0352	00252	1684
0175	0538	33586		2653	14736	0393	00319	1529
0200	0521	3371 B		2665	14735	0430	00390	1420
0225	0494 B	3376 C		2672	14728	0465	00466	1355
0250	0469	33776		2676	14722	0498	00548	1317
0300	0437 C	3384 C		2684	14718	0563	00730	1242

C-REF-NO 004	YR 1966	DEPTH C 3774	WAVES 1 3123	AIR T 08.3	VIS 7
CONS. NO 009	MONTH 5	MXSAMPD 35	WAVES 2 3133	WET B 06.6	STN 009
LAT 49-26 N	DAY 29	NO.DPTH 24	WND-DIR 310	WW-CODE 02	
LON 136-40 W	HR 18.4	W-COLOR 10	WND-SPD 09	CLD-TPE 7	
MARSD SQ 158	C/I 1802	W-TRNSP 18	BARO 1029.0	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
184	0000	080 B	32571		2539	14798
184	0010	0785	32521		2537	14793
184	0020	0784	32524		2538	14794
184	0030	0783	32521		2538	14795
184	0050	0720	32550		2549	14774
184	0075	0569	32608		2572	14719
184	0100	0561	32935		2599	14724
184	0125	0595	33498		2640	14749
184	0150	0545	33648		2657	14735
184	0175	0496	33704		2668	14720
184	0200	0473	33734		2672	14715
184	0250	0505	33893		2681	14739
184	0300	0482	33940		2688	14738
184	0399	0452	34051		2700	14743
184	0499	0420	34120		2709	14747
184	0599	0385	34194		2718	14750
192	0790	0334	34298		2732	14762
192	0988	0297	34376		2741	14780
192	1186	0274	34432		2748	14804
192	1484	0236	34503		2757	14839
192	1979	0195	34585		2766	14906
192	2474	0171	34626		2772	14981
192	2970	0159	34652		2775	15061
192	3466	0156 B	34667		2776	15147

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0800 B	32571		2539	14798	0000	00000	2595
0010	0785	32521		2537	14793	0026	00001	2613
0020	0784	32524		2538	14794	0052	00005	2611
0030	0783	32521		2538	14795	0079	00012	2614
0050	0720	32550		2549	14774	0130	00033	2511
0075	0569	32608		2572	14719	0191	00071	2285
0100	0561	32935		2599	14724	0245	00120	2034
0125	0595	33498		2640	14749	0291	00173	1656
0150	0545	33648		2657	14735	0331	00228	1488
0175	0496	33704		2668	14720	0367	00289	1393
0200	0473	33734		2672	14715	0402	00355	1348
0225	0486 C	3381 D		2677	14725	0435	00428	1306

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0250	0505	33893		2681	14738	0468	00507	1270
0300	0482	33940		2688	14738	0530	00684	1214
0400	0452	34052		2700	14743	0647	01102	1106
0500	0420	34121		2709	14747	0755	01598	1028
0600	0385	34195		2718	14750	0855	02159	0943
0700	0356	34254		2726	14755	0947	02771	0876
0800	0332	34303		2732	14762	1032	03432	0821
1000	0295	34380		2742	14781	1190	04883	0737
1200	0272	34436		2748	14806	1334	06506	0682
1500	0234	34506		2757	14841	1530	09208	0603
2000	0194	34587		2767	14909	1814	14294	0518
2500	0170	34628		2772	14985	2068	20157	0477
3000	0158	34654		2775	15066	2307	26930	0458
3500	0156 B	34668		2776	15153	2541	34832	0460

C-REF-NO 004	YR 1966	DEPTH C 3889	WAVES 1 3222	AIR T 07.7	VIS 7
CONS. NO 010	MONTH 5	MXSAMPD 04	WAVES 2 3233	WET B 06.1	STN 010
LAT 49-34 N	DAY 30	NO.DPTH 14	WND-DIR 320	WW-CODE 02	
LON 138-40 W	HR 02.3	W-COLOR 10	WND-SPD 10	CLD-TPE 6	
MARSD SQ 158	C/I 1802	W-TRNSP 14	BARO 1032.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
023	0000	080 B	32670		2547	14799
023	0010	0781	32623		2546	14793
023	0019	0774	32625		2547	14791
023	0029	0757	32618		2549	14786
023	0048	0747	32621		2550	14786
023	0072	0610	32678		2573	14736
023	0096	0552	32665		2579	14716
023	0120	0517	32734		2588	14707
023	0144	0538	33416		2640	14728
023	0169	0495	33590		2659	14717
023	0193	0427	33665		2672	14694
023	0241	0387	33748		2683	14686
023	0289	0382	33824		2689	14693
023	0388	0382	33974		2701	14711

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0800 B	32670		2547	14799	0000	00000	2521
0010	0781	32623		2546	14793	0025	00001	2532
0020	0772	32624		2547	14791	0051	00005	2521
0030	0757	32617		2549	14787	0076	00012	2507
0050	0737 B	32626		2552	14782	0126	00032	2476
0075	0600	32676		2574	14732	0186	00070	2270
0100	0543	3265 D		2579	14713	0243	00121	2226
0125	0522 B	3287 I		2599	14711	0296	00183	2039
0150	0532	3349 E		2646	14728	0342	00246	1593
0175	0478	33614		2662	14711	0380	00310	1440
0200	0416	33680		2674	14690	0415	00377	1328
0225	0391 B	33726		2680	14685	0448	00448	1270
0250	0385	33763		2684	14686	0479	00525	1238
0300	0372 C	33843		2692	14690	0540	00696	1169

C-REF-NO 004	YR 1966	DEPTH C 3880	WAVES 1 3122	AIR T 07.7	VIS 7
CONS. NO 011	MONTH 5	MXSAMPD 15	WAVES 2 3133	WET B 04.9	STN 011
LAT 49-41 N	DAY 30	NO.DPTH 20	WND-DIR 310	WW-CODE 02	
LON 140-40 W	HR 09.4	W-COLOR	WND-SPD 02	CLD-TPE 7	
MARSD SQ 159	C/I 1802	W-TRNSP	BARO 1035.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
094	0000	073 B	32595		2551	14771
094	0010	0721	32577		2551	14769
094	0020	0721	32565		2550	14770
094	0030	0706	32561		2551	14766
094	0049	0703	32567		2552	14768
094	0074	0555 B	32619		2575	14713
094	0099	0513	32647		2582	14700
094	0124	0498	32743		2591	14700
094	0149	0577	33426		2636	14745
094	0174	0545	33702		2662	14740
094	0198	0493	33731		2670	14723
094	0248	0484	33863		2681	14729
094	0298	0452	33902		2688	14725
094	0397	0407	33983		2699	14723
098	0494	0402	34099		2709	14739
098	0596	0387	34196		2718	14751
098	0799	0335	34292		2731	14763
098	0996	0296	34375		2741	14781
098	1194	0268	34433		2748	14803
098	1491	0238	34509		2757	14841

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0730 B	32595		2551	14771	0000	00000	2483
0010	0721	32577		2551	14769	0025	00001	2486
0020	0721	32565		2550	14770	0050	00005	2497
0030	0706	32561		2551	14766	0075	00012	2482
0050	0698	32569		2553	14766	0125	00032	2468
0075	0552 B	32620		2575	14712	0184	00070	2257
0100	0511	32645		2582	14700	0240	00120	2196
0125	0501	3277 B		2593	14701	0294	00182	2094
0150	0577	33443		2637	14745	0342	00248	1678
0175	0543	33705		2662	14739	0381	00314	1445
0200	0492	33736		2671	14723	0417	00382	1366
0225	0481 C	3380 C		2677	14723	0450	00455	1308
0250	0483	33865		2682	14729	0483	00534	1265
0300	0451	33903		2688	14724	0545	00710	1206
0400	0407	33986		2700	14724	0662	01126	1105
0500	0401	34106		2710	14739	0769	01620	1019

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0386	34199		2719	14751	0868	02178	0942
0700	0361	3425 B		2725	14758	0960	02793	0882
0800	0335	34292		2731	14764	1047	03460	0831
1000	0295	34376		2741	14781	1206	04923	0740
1200	0266	34439		2749	14803	1349	06537	0673
1500	0237	34511		2757	14842	1543	09222	0604

C-REF-NO 004	YR 1966	DEPTH C 3909	WAVES 1 00X0	AIR T 07.2	VIS 7
CONS. NO 012	MONTH 5	MXSAMPD 04	WAVES 2 00XC	WET B 05.5	STN 012
LAT 49-49 N	DAY 30	NO.DPTH 14	WND-DIR 990	WW-CODE 02	
LON 142-40 W	HR 17.3	W-COLOR	WND-SPD	CLD-TPE 4	
MARSD SQ 159	C/I 1802	W-TRNSP	BARO 1035.0	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
173	0000	074 B	32687		2557	14776
173	0010	0684	32640		2561	14755
173	0020	0674	32638		2562	14752
173	0030	0671	32638		2562	14753
173	0050	0667	32641		2563	14755
173	0075	0592	32653		2573	14729
173	0100	0515	32672		2584	14702
173	0125	0490	32926		2607	14699
173	0150	0486	33419		2646	14708
173	0175	0467	33591		2662	14706
173	0200	0438	33687		2673	14700
173	0250	0395	33753		2682	14691
173	0300	0379	33822		2689	14693
173	0400	0359	33964		2703	14703

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0740 B	32687		2557	14776	0000	00000	2428
0010	0684	32640		2561	14755	0024	00001	2392
0020	0674	32638		2562	14752	0048	00005	2382
0030	0671	32638		2562	14753	0072	00011	2380
0050	0667	32641		2563	14755	0120	00031	2375
0075	0592	32653		2573	14729	0179	00068	2278
0100	0515	32672		2584	14702	0235	00118	2179
0125	0490	32926		2607	14699	0287	00178	1964
0150	0486	33419		2646	14708	0332	00241	1593
0175	0467	33591		2662	14706	0370	00304	1446
0200	0438	33687		2673	14700	0405	00372	1345
0225	0414	3373 C		2679	14694	0438	00444	1289
0250	0395	33753		2682	14691	0470	00522	1255
0300	0379	33822		2689	14693	0532	00696	1192
0400	0359	33964		2703	14703	0646	01104	1073

C-REF-NO 004	YR 1966	DEPTH C 4114	WAVES 1	XX	AIR T 07.7	VIS 7
CONS. NO 013	MONTH 5	MXSAMPD 15	WAVES 2	XX	WET B	STN ON
LAT 50-00 N	DAY 30	NO.DPTH 20	WND-DIR 200	WW-CODE 02		
LON 143-55 W	HR 23.4	W-COLOR 10	WND-SPD 02	CLD-TPE 1		
MARSD SQ 195	C/I 1802	W-TRNSP 12	BARO 1035.0	CLD-AMT 4	HW	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
234	0000	078 B	32716		2553	14792
234	0010	0719	32659		2557	14769
234	0020	0681	32674		2564	14756
234	0030	0678	32674		2564	14756
234	0050	0670	32666		2564	14756
234	0075	0525	32655		2581	14701
234	0099	0501	32670		2585	14696
234	0124	0475	32720		2592	14690
234	0149	0458	33286		2639	14694
234	0174	0405	33555		2666	14680
234	0199	0373	33665		2677	14672
234	0249	0360	33766		2687	14676
234	0298	0364	33843		2692	14687
234	0398	0360	33944		2701	14703
239	0498	0354	34096		2714	14719
239	0598	0349	34194		2722	14735
239	0797	0320	34305		2733	14757
239	0996	0291	34381		2742	14779
239	1195	0264	34444		2750	14801
239	1494	0234 B	34508		2757	14839

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
0000	0780 B	32716		2553	14792	0000	00000	2460
0010	0719	32659		2557	14769	0025	00001	2423
0020	0681	32674		2564	14756	0049	00005	2364
0030	0678	32674		2564	14756	0072	00011	2362
0050	0670	32666		2564	14756	0120	00031	2360
0075	0525	32655		2581	14701	0177	00067	2201
0100	0500	32667		2585	14695	0232	00116	2167
0125	0475	3274 B		2594	14690	0286	00178	2087
0150	0456	33301		2640	14694	0333	00244	1649
0175	0403	33561		2666	14679	0371	00307	1402
0200	0372	33668		2678	14672	0405	00373	1293
0225	0361	3373 B		2684	14672	0437	00442	1238
0250	0360	33768		2687	14676	0468	00517	1210
0300	0364	33845		2693	14687	0528	00686	1159
0400	0360	33947		2701	14703	0641	01091	1086
0500	0354	34098		2714	14719	0745	01569	0974
0600	0349	34195		2722	14735	0840	02104	0904

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0700	0336	34260		2728	14747	0929	02695	0849
0800	0320	34306		2734	14757	1012	03339	0805
1000	0290	34382		2742	14779	1167	04769	0730
1200	0264	34445		2750	14802	1309	06365	0667
1500	0233 B	34509		2757	14840	1502	09031	0601

C-REF-NO 004	YR 1966	DEPTH C 3968	WAVES 1 49X0	AIR T 07.7	VIS 7
CONS. NO 014	MONTH 5	MXSAMPD 15	WAVES 2 49X0	WET B 07.2	STN GN
LAT 50-42 N	DAY 31	NO.DPTH 20	WND-DIR 210	WW-CODE 03	
LON 143-52 W	HR 06.8	W-COLOR	WND-SPD 02	CLD-TPE 2	
MARSD SQ 195	C/I 1802	W-TRNSP	BARO 1035.0	CLD-AMT 5	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
068	0000	075 B	32703		2557	14780
068	0010	0722 B	32629		2555	14770
068	0020	0651	32629		2564	14743
068	0030	0644	32623		2564	14742
068	0050	0630	32624		2566	14740
068	0075	0575	32635		2574	14722
068	0100	0469	32677		2589	14683
068	0125	0460	32903		2608	14686
068	0150	0408	33403		2653	14675
068	0175	0380	33565		2669	14670
068	0200	0357	33642		2677	14665
068	0250	0345	33779		2689	14670
068	0300	0353	33890		2697	14683
068	0400	0360	34028		2708	14704
073	0499	0360	34150		2717	14722
073	0599	0351	34216		2723	14736
073	0799	0319	34318		2735	14757
073	0999	0289	34387		2743	14778
073	1198	0261	34444		2750	14800
073	1498	0233	34507		2757	14840

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
0000	0750 B	32703		2557	14780	0000	00000	2429
0010	0722 B	32629		2555	14770	0025	00001	2449
0020	0651	32629		2564	14743	0049	00005	2361
0030	0644	32623		2564	14742	0072	00011	2358
0050	0630	32624		2566	14740	0120	00030	2342
0075	0575	32635		2574	14722	0178	00068	2272
0100	0469	32677		2589	14683	0233	00117	2126
0125	0460	32903		2608	14686	0284	00176	1950
0150	0408	33403		2653	14675	0328	00237	1523
0175	0380	33565		2669	14670	0365	00298	1376
0200	0357	33642		2677	14665	0396	00362	1297
0225	0347	33714		2684	14666	0430	00432	1236
0250	0345	33779		2689	14670	0461	00506	1187
0300	0353	33890		2697	14683	0519	00670	1115
0400	0360	34028		2708	14704	0627	01056	1026
0500	0360	34151		2717	14723	0726	01513	0941

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0351	34217		2723	14736	0819	02035	0890
0700	0336	34272		2729	14747	0906	02618	0841
0800	0319	34318		2735	14757	0989	03255	0795
1000	0289	34387		2743	14779	1143	04672	0724
1200	0262	34444		2750	14801	1283	06259	0665
1500	0233	34507		2757	14840	1476	08922	0601

C-REF-NO 004	YR 1966	DEPTH C 4279	WAVES 1 1821	AIR T 07.7	VIS 7
CONS. NO 015	MONTH 5	MXSAMPD 15	WAVES 2 2233	WET B 07.2	STN GS
LAT 50-42 N	DAY 31	NO.DPTH 20	WND-DIR 180	WW-CODE 02	
LON 145-00 W	HR 16.2	W-COLOR	WND-SPD 06	CLD-TPE 4	
MARSD SQ 195	C/I 1802	W-TRNSP	BARO 1031.0	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
162	0000	075 B	32754		2561	14781
162	0010	0716	32674		2559	14768
162	0019	0665	32674		2566	14749
162	0029	0660	32675		2566	14749
162	0048	0654	32682		2568	14750
162	0071	0627	32665		2570	14742
162	0095	0521	32708		2586	14704
162	0119	0507	32769		2592	14703
162	0143	0472	33084		2621	14696
162	0167	0429	33460		2655	14687
162	0191	0385	33622		2673	14675
162	0238	0352	33727		2684	14670
162	0287	0343	33819		2693	14676
162	0384	0346	33972		2704	14695
168	0488	0350	34093		2714	14716
168	0588	0341	34185		2722	14730
168	0788	0314	34311		2734	14753
168	0987	0290	34374		2742	14777
168	1173	0262	34439		2749	14797
168	1468	0233	34518		2758	14835

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0750 B	32754		2561	14781	0000	00000	2391
0010	0716	32674		2559	14768	0024	00001	2408
0020	0663	32674		2566	14749	0048	00005	2342
0030	0660	32676		2567	14749	0072	00011	2338
0050	0654	32680		2568	14750	0119	00030	2329
0075	0609 B	32669		2572	14736	0177	00067	2286
0100	0515 B	3271 B		2587	14702	0232	00117	2151
0125	0500	3283 B		2598	14702	0285	00178	2044
0150	0460	3320 C		2632	14694	0333	00245	1728
0175	0413	3353 B		2663	14683	0373	00311	1435
0200	0375	3365 B		2676	14673	0407	00377	1306
0225	0356	3371 C		2683	14670	0439	00447	1245
0250	0348	33751		2687	14671	0470	00522	1211
0300	0343	33842		2694	14678	0530	00689	1141
0400	0347	33993		2706	14698	0640	01082	1039
0500	0349	34105		2715	14717	0741	01548	0965

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0340	34195		2723	14731	0835	02077	0895
0700	0326	34264		2730	14743	0922	02660	0836
0800	0313	34316		2735	14754	1004	03294	0790
1000	0288	34379		2742	14778	1158	04713	0730
1200	0262	34443		2750	14801	1300	06307	0665

C-REF-NO 004	YR 1966	DEPTH C 4352	WAVES 1 1922	AIR T 08.3	VIS 5
CONS. NO 016	MONTH 6	MXSAMPD 15	WAVES 2 1823	WET B 07.7	STN GG
LAT 50-42 N	DAY 01	NO.DPTH 20	WND-DIR 190	WW-CODE 02	
LON 146-08 W	HR 01.8	W-COLOR 10	WND-SPD 07	CLD-TPE 7	
MARSD SQ 195	C/I 1802	W-TRNSP 13	BARO 1028.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
018	0000	076 B	32706		2555	14784
018	0010	0690	32681		2563	14758
018	0020	0642	32678		2569	14740
018	0030	0624	32678		2571	14735
018	0050	0594	32672		2575	14726
018	0075	0470	32692		2590	14679
018	0100	0418	32695		2596	14662
018	0125	0437	33154		2630	14680
018	0150	0406	33500		2661	14676
018	0174	0389	33656		2675	14674
018	0199	0373	33689		2679	14672
018	0249	0334	33767		2689	14665
018	0299	0342	33859		2696	14678
018	0399	0347	34006		2707	14698
022	0497	0358	34123		2715	14721
022	0599	0344	34201		2723	14733
022	0800	0314	34308		2734	14755
022	0999	0284	34395		2744	14776
022	1197	0256	34453		2751	14798
022	1495	0231	34510		2758	14838

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0760 B	32706		2555	14784	0000	00000	2440
0010	0690	32681		2563	14758	0024	00001	2369
0020	0642	32678		2569	14740	0048	00005	2313
0030	0624	32678		2571	14735	0071	00011	2292
0050	0594	32672		2575	14726	0117	00030	2264
0075	0470	32692		2590	14679	0172	00065	2114
0100	0418	32695		2596	14662	0224	00112	2061
0125	0437	33154		2630	14680	0272	00166	1737
0150	0406	33500		2661	14676	0312	00223	1448
0175	0388	33659		2675	14674	0347	00280	1314
0200	0372	33690		2680	14672	0380	00343	1276
0225	0350	33728		2685	14667	0411	00412	1228
0250	0334	33769		2689	14665	0442	00486	1184
0300	0342	33861		2696	14678	0500	00650	1126
0400	0347	34007		2707	14699	0609	01038	1028
0500	0358	34126		2716	14721	0709	01500	0958

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0344	34202		2723	14733	0803	02028	0894
0700	0329	34260		2729	14744	0890	02613	0843
0800	0314	34308		2734	14755	0973	03252	0798
1000	0284	34395		2744	14777	1126	04659	0713
1200	0257	34456		2751	14799	1264	06217	0650
1500	0231	34510		2758	14839	1454	08842	0596

C-REF-NO 004	YR 1966	DEPTH C 3730	WAVES 1 1622	AIR T 08.8	VIS 5
CONS. NO 017	MONTH 6	MXSAMPD 15	WAVES 2 1623	WET B 08.8	STN OG
LAT 50-00 N	DAY 01	NO.DPTH 20	WND-DIR 160	WW-CODE 60	
LON 146-06 W	HR 11.7	W-COLOR	WND-SPD 09	CLD-TPE X	
MARSD SQ 195	C/I 1802	W-TRNSP	BARO 1024.0	CLD-AMT 9	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
117	0000	078 B	32729		2554	14792
117	0010	0748	32700		2557	14781
117	0020	0738	32699		2558	14779
117	0030	0700	32691		2562	14765
117	0050	0659	32695		2568	14752
117	0075	0556	32700		2581	14715
117	0100	0495	32738		2591	14694
117	0125	0524	33100		2617	14715
117	0150	0497	33444		2647	14713
117	0175	0463	33634		2666	14705
117	0200	0410	33681		2675	14688
117	0250	0370	33733		2683	14680
117	0300	0362	33809		2690	14686
117	0399	0355	33943		2701	14701
122	0500	0366	34068		2710	14724
122	0600	0349	34159		2719	14735
122	0800	0325	34282		2731	14759
122	1000	0294	34373		2741	14781
122	1200	0263	34438		2749	14802
122	1500	0236 B	34502		2757	14841

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0780 B	32729		2554	14792	0000	00000	2450
0010	0748	32700		2557	14781	0025	00001	2430
0020	0738	32699		2558	14778	0049	00005	2419
0030	0700	32691		2562	14765	0073	00011	2377
0050	0659	32695		2568	14752	0120	00031	2325
0075	0556	32700		2581	14715	0177	00067	2202
0100	0495	32738		2591	14694	0232	00115	2108
0125	0524	33100		2617	14715	0282	00173	1871
0150	0497	33444		2647	14713	0325	00234	1586
0175	0463	33634		2666	14705	0363	00296	1409
0200	0410	33681		2675	14688	0397	00363	1321
0225	0383	33709		2680	14681	0430	00434	1274
0250	0370	33733		2683	14680	0462	00511	1245
0300	0362	33809		2690	14686	0523	00684	1184
0400	0355	33944		2701	14701	0637	01093	1083
0500	0366	34068		2710	14724	0743	01579	1010

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0349	34159		2719	14735	0841	02131	0931
0700	0337	34227		2726	14747	0932	02740	0875
0800	0325	34282		2731	14759	1019	03403	0829
1000	0294	34373		2741	14781	1177	04865	0741
1200	0263	34438		2749	14802	1320	06476	0670
1500	0236 B	34502		2757	14841	1515	09168	0609

C-REF-NO 004	YR 1966	DEPTH C 4297	WAVES 1 1623	AIR T 08.8	VIS 4
CONS. NO 018	MONTH 6	MXSAMPD 14	WAVES 2 1834	WET B 08.8	STN NG
LAT 49-18 N	DAY 01	NO.DPTH 20	WNO-DIR 160	WW-CODE 43	
LON 146-05 W	HR 19.3	W-COLOR 10	WNO-SPD 10	CLD-TPE X	
MARSD SQ 159	C/I 1802	W-TRNSP 11	BARO 1019.0	CLD-AMT 9	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
193	0000	078 B	32713		2553	14792
193	0009	0768	32675		2552	14788
193	0017	0766	32675		2552	14789
193	0026	0702	32677		2561	14765
193	0043	0697	32677		2562	14766
193	0065	0693	32677		2562	14768
193	0087	0588	32678		2576	14729
193	0108	0555	32687		2580	14720
193	0130	0536	32782		2590	14717
193	0151	0526	33166		2622	14721
193	0173	0475	33475		2652	14708
193	0216	0426	33677		2673	14697
193	0259	0406	33750		2681	14697
193	0354	0370	33875		2694	14699
198	0447	0365	33989		2704	14714
198	0540	0354	34086		2713	14726
198	0724	0335	34247		2727	14750
198	0908	0309	34340		2737	14771
198	1096	0278	34404		2745	14790
198	1378	0245	34477		2754	14824

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0780 B	32713		2553	14792	0000	00000	2462
0010	0769	32674		2552	14789	0025	00001	2477
0020	0746 B	32676		2555	14781	0050	00005	2447
0030	0694 B	32677		2562	14763	0074	00011	2379
0050	0701 B	32677		2561	14769	0122	00031	2391
0075	0647 D	32677		2568	14751	0181	00069	2327
0100	0563	32678		2579	14721	0239	00120	2228
0125	0539	3274 B		2587	14717	0294	00184	2156
0150	0527	33145		2620	14721	0344	00254	1843
0175	0472	33492		2653	14707	0387	00325	1525
0200	0439	3364 E		2669	14699	0423	00395	1381
0225	0421	33698		2675	14697	0457	00469	1321
0250	0409	33740		2680	14696	0490	00549	1279
0300	0388	33808		2687	14697	0553	00726	1211
0400	0366	33933		2699	14706	0670	01143	1103
0500	0359	34046		2709	14721	0777	01636	1019

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0348	34144		2718	14734	0876	02193	0941
0700	0338	34229		2726	14747	0967	02805	0874
0800	0325	34291		2732	14759	1053	03465	0822
1000	0294	34374		2741	14780	1211	04920	0740
1200	0267	34439		2749	14803	1354	06534	0674

C-REF-NO 004	YR 1966	DEPTH C 4220	WAVES 1 1722	AIR T 08.8	VIS 6
CONS. NO 019	MONTH 6	MXSAMPD 06	WAVES 2 1633	WET B 08.3	STN 201
LAT 50-08 N	DAY 03	NO.DPTH 16	WND-DIR 170	WW-CODE 42	
LON 145-05 W	HR 18.9	W-COLOR 10	WND-SPD 02	CLD-TPE 8	
MARSD SQ 195	C/I 1802	W-TRNSP 13	BARO 1019.0	CLD-AMT 4	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
189	0000	074 B	32654	707	2554	14775
189	0010	0710	32649	726	2558	14765
189	0020	0706	32653	717	2559	14765
189	0030	0705	32653	716	2559	14767
189	0049	0644	32650	718	2567	14745
189	0074	0628 B	32648	715	2568	14743
189	0099	0485	32648	718	2585	14689
189	0124	0480	32683	706	2589	14691
189	0149	0440	33362	519	2647	14688
189	0174	0410	33555	437	2665	14682
189	0198	0372	33638	380	2675	14671
189	0248	0347	33729	284	2685	14670
189	0298	0339	33798	210	2691	14676
189	0397	0352	33987	118	2705	14700
189	0497	0350	34104	080	2715	14717
189	0596	0339	34183	060	2722	14730

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0740 B	32654	707	2554	14775	0000	00000	2452
0010	0710	32649	726	2558	14765	0025	00001	2418
0020	0706	32653	717	2559	14765	0049	00005	2412
0030	0705	32653	716	2559	14767	0073	00011	2412
0050	0644	32650	718	2567	14746	0121	00031	2340
0075	0622 B	32648	715	2569	14741	0179	00068	2318
0100	0484	3264 B	719	2585	14688	0236	00119	2168
0125	0479	3271 C	699	2591	14691	0290	00181	2115
0150	0439	33375	514	2648	14688	0336	00246	1575
0175	0408	33560	434	2666	14681	0374	00308	1408
0200	0370	33643	376	2676	14671	0408	00374	1309
0225	0353	3370 B	325	2682	14668	0440	00444	1255
0250	0346	33732	281	2685	14670	0472	00520	1223
0300	0339	33802	208	2692	14676	0532	00690	1167
0400	0352	33991	116	2705	14701	0644	01088	1045
0500	0351	3411 B	073 B	2715	14718	0745	01554	0960
0600	0338	34185	060	2722	14730	0839	02084	0901

C-REF-NO 004	YR 1966	DEPTH C 4220	WAVES 1 1223	AIR T 08.3	VIS 1
CONS. NO 020	MONTH 6	MXSAMPD 04	WAVES 2 1034	WET B 08.3	STN 202
LAT 50-02 N	DAY 06	NO.DPTH 14	WND-DIR 120	WW-CODE 47	
LON 145-01 W	HR 19.3	W-COLOR 10	WND-SPD 09	CLD-TPE X	
MARSD SQ 195	C/I 1802	W-TRNSP 13	BARO 1011.0	CLD-AMT 9	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
193	0000	081 B	32655	701	2544	14803
193	0010	0768	32651	696	2550	14788
193	0019	0762	32653	709	2551	14787
193	0029	0700		720		
193	0049	0645	32667	725	2568	14746
193	0073	0557	32672	702	2579	14714
193	0098	0473	32758	680	2595	14685
193	0122	0512	33060	616	2615	14709
193	0147	0464	33466	502	2652	14699
193	0171	0416	33612	422	2669	14685
193	0195	0377	33674	356	2678	14673
193	0244	0362	33752	273	2685	14676
193	0293	0341	33806	206	2692	14676
193	0391	0344	33938	129	2702	14695

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0810 B	32655	701	2544	14803	0000	00000	2546
0010	0768	32651	696	2550	14788	0025	00001	2493
0020	0757	32653	710	2552	14785	0050	00005	2478
0030	0696	32658	721	2560	14763	0075	00011	2397
0050	0642	32667	724	2568	14745	0122	00031	2325
0075	0548	32673	701	2580	14711	0179	00067	2212
0100	0476 B	32777	676	2596	14687	0233	00115	2058
0125	0509	3311 B	603	2619	14709	0282	00172	1844
0150	0458	33493	491	2655	14697	0325	00231	1507
0175	0408	33626	410	2671	14682	0361	00291	1358
0200	0374	33684	346	2679	14673	0394	00354	1282
0225	0363 B	33727	300	2683	14673	0426	00424	1241
0250	0359	33759	264	2686	14676	0457	00499	1215
0300	0345 B	3382 B	199	2693	14679	0517	00668	1157
0400	0345	33949	125	2703	14697	0629	01070	1070

C-REF-NO 004	YR 1966	DEPTH C 4220	WAVES 1 1633	AIR T 09.4	VIS 5
CONS. NO 021	MONTH 6	MXSAMPD 04	WAVES 2 1634	WET B 08.8	STN 203
LAT 49-59 N	DAY 08	NO.DPTH 14	WND-DIR 160	WW-CODE 61	
LON 144-59 W	HR 20.1	W-COLOR 10	WND-SPD 11	CLD-TPE 7	
MARSD SQ 159	C/I 1802	W-TRNSP 11	BARO 1003.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
201	0000	086 B	32668	698	2538	14822
201	0009	0798	32643	708	2545	14799
201	0019	0799	32642	708	2545	14801
201	0029	0774	32645	713	2549	14793
201	0047	0650	32665	728	2567	14748
201	0071	0611	32670	714	2572	14736
201	0095	0483	32716	704	2591	14688
201	0119	0505	32972	642	2609	14705
201	0143	0471	33383	538	2645	14700
201	0166	0422	33569	451	2665	14686
201	0190	0404	33681	389	2676	14684
201	0238	0352	33724	295	2684	14670
201	0285	0341	33790	222	2690	14674
201	0381	0344	33946	132	2703	14693

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0860 B	32668	698	2538	14822	0000	00000	2608
0010	0797	32642	708	2545	14799	0026	00001	2540
0020	0798	32642	708	2545	14801	0051	00005	2542
0030	0767	32646	714	2550	14791	0077	00012	2499
0050	0644 B	32665	727	2568	14746	0125	00031	2328
0075	0588 C	3267 B	714	2575	14727	0183	00068	2261
0100	0484 C	32754	695	2594	14690	0238	00117	2084
0125	0500	3308 D	617	2618	14705	0287	00174	1861
0150	0455	3345 B	509	2652	14696	0330	00234	1533
0175	0414	33619	425	2670	14684	0367	00295	1368
0200	0392	3370 C	367	2678	14681	0400	00359	1289
0225	0365	3372 C	318	2683	14674	0432	00429	1246
0250	0347	33739	275	2686	14670	0463	00504	1218
0300	0329 C	33807	203	2693	14672	0523	00673	1154

C-REF-NO 004	YR 1966	DEPTH C 4220	WAVES 1 2333	AIR T 08.8	VIS 7
CONS. NO 022	MONTH 6	MXSAMPD 18	WAVES 2 2334	WET B 08.3	STN 204
LAT 49-55 N	DAY 11	NO.DPTH 21	WND-DIR 230	WW-CODE 02	
LON 144-55 W	HR 19.3	W-COLOR 10	WND-SPD 07	CLD-TPE 6	
MARSD SQ 159	C/I 1802	W-TRNSP 13	BARO 1010.0	CLD-AMT 5	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
193	0000	086 B	32653	695	2537	14822
193	0009	0813	32638	700	2542	14805
193	0019	0812	32639	704	2543	14806
193	0028	0806	32642	704	2544	14805
193	0047	0636	32677	722	2570	14742
193	0070	0543	32713	703	2584	14709
193	0094	0483	32693	710	2589	14688
193	0117	0492	33177	595	2626	14702
193	0141	0462	33456	514	2652	14697
193	0164	0422	33591	439	2667	14686
193	0188	0393	33653	390	2675	14678
193	0235	0349	33726	296	2685	14668
193	0282	0341	33805	215	2692	14674
193	0376	0348	33938	138	2702	14694
199	0423	0355	34011	113	2707	14706
199	0514	0349	34116	080	2716	14720
199	0695	0333	34264	064	2729	14745
199	0877	0306	34351	061	2738	14765
199	1060	0277	34416	050	2746	14784
199	1336	0246	34482	076	2754	14818
199	1772	0207	34559	111	2763	14875

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0860 B	32653	695	2537	14822	0000	00000	2619
0010	0812	32638	701	2543	14805	0026	00001	2563
0020	0813	32639	704	2543	14807	0052	00005	2565
0030	0791 C	32645	706	2546	14800	0078	00012	2532
0050	0619	32683	720	2572	14736	0126	00031	2285
0075	0526	3269 F	709 B	2584	14702	0182	00067	2176
0100	0484 B	3281 H	684 B	2598	14691	0235	00115	2046
0125	0485	33291	566	2636	14702	0282	00168	1685
0150	0446	33521	483	2658	14693	0322	00224	1474
0175	0408	33625	415	2671	14682	0358	00284	1358
0200	0379	33674	365	2678	14675	0391	00348	1295
0225	0356	33713	315	2683	14670	0423	00418	1245
0250	0344	33751	268	2687	14669	0454	00493	1206
0300	0341	33831	194	2694	14677	0513	00660	1147
0400	0352	33976	124	2704	14700	0625	01057	1056

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0500	0351	34102	084	2714	14718	0727	01528	0968
0600	0342	34195	067	2723	14732	0821	02059	0898
0700	0332	34267	064	2729	14746	0909	02645	0841
0800	0318	34319	062	2735	14757	0992	03281	0794
1000	0286	34397	053	2744	14778	1144	04686	0715
1200	0260	34453	060	2751	14801	1283	06253	0656
1500	0227	34521	077 B	2759	14838	1472	08863	0585

C-REF-NO 004	YR 1966	DEPTH C 4220	WAVES 1 1722	AIR T 09.9	VIS 7
CONS. NO 023	MONTH 6	MXSAMPD C4	WAVES 2 2333	WET B 09.4	STN 205
LAT 50-00 N	DAY 13	NO.DPTH 14	WND-DIR 170	WW-CODE 02	
LON 144-56 W	HR 20.0	W-COLOR 10	WND-SPD 02	CLD-TPE 4	
MARSD SQ 195	C/I 1802	W-TRNSP 14	BARO 1022.0	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
200	0000	089 B	32649	691	2532	14833
200	0010	0858	32642	684	2536	14822
200	0020	0827	32636	705	2540	14812
200	0029	0738	32660	720	2555	14779
200	0049	0640	32672	720	2569	14744
200	0073	0542	32694	707	2582	14709
200	0098	0466	32770	686	2597	14682
200	0122	0481		561		
200	0147	0435	33542	415	2661	14688
200	0171	0401	33656	388	2674	14679
200	0196	0387	33671	371	2677	14677
200	0245	0347	33742	344	2686	14669
200	0295	0341	33806	202	2692	14676
200	0395	0352	33972	123	2704	14699

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0890 B	32649	691	2532	14833	0000	0000C	2665
0010	0858	32642	684	2536	14822	0027	00001	2626
0020	0827	32636	705	2540	14812	0053	00005	2588
0030	0731	32661	721	2556	14777	0078	00012	2440
0050	0635	32672	720	2569	14742	0126	00031	2313
0075	0534	32695	708	2583	14706	0182	00067	2180
0100	0467	3280 D	678	2599	14683	0235	00115	2031
0125	0477	3319 I	541	2629	14697	0283	00169	1753
0150	0430	33564	408	2664	14686	0323	00225	1425
0175	0398	33661	385	2675	14679	0358	00283	1321
0200	0383	33676	371	2677	14677	0391	00346	1298
0225	0362	33710	361 B	2682	14672	0423	00416	1253
0250	0345	33748	331	2687	14670	0454	00492	1210
0300	0333 B	33819	242 I	2693	14674	0513	00659	1149
0400	0355	33981	117	2704	14702	0625	01057	1056

C-REF-NO 004	YR 1966	DEPTH C 4220	WAVES 1 1222	AIR T 09.9	VIS 4
CONS. NO 024	MONTH 6	MXSAMPD 40	WAVES 2 3633	WET B 09.9	STN 206
LAT 50-01 N	DAY 16	NO.DPTH 26	WND-DIR 120	WW-CODE 65	
LON 145-03 W	HR 19.0	W-COLOR 10	WND-SPD 05	CLD-TPE X	
MARSD SQ 195	C/I 1802	W-TRNSP 12	BARO 1004.0	CLD-AMT 9	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
190	0000	087 B	32618	683	2532	14825
190	0009	0878	32639	695	2533	14830
190	0018	0873	32647	691	2534	14829
190	0027	0794	32651	712	2546	14801
190	0045	0655	32674	724	2567	14749
190	0068	0605	32681	715	2574	14733
190	0090	0538	32764	705	2588	14711
190	0113	0503	32769	698	2593	14700
190	0136	0490	33352	662	2640	14706
190	0159	0443	33509	482	2658	14693
190	0181	0392	33618	404	2672	14676
190	0226	0351	33703	309	2683	14667
190	0272	0340	33757	248	2688	14671
190	0363	0345	33924	138	2701	14691
190	0456	0353		094		
190	0554	0343	34145	072	2719	14724
201	0733	0327	34260	059	2729	14749
201	0923	0302	34356	056	2739	14771
201	1109	0274	34413	065	2746	14791
201	1395	0241	34484	064	2755	14825
201	1874	0206 B	34565	113	2764	14892
201	2354	0181	34619	180	2770	14964
201	2833	0164	34641	236	2773	15040
201	3312	0154		295		
201	3792	0152 B	34676	317	2777	15202
201	4000	0150 B	34672	323	2777	15238

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0870 B	32618	683	2532	14825	0000	00000	2659
0010	0880	32640	694	2533	14831	0027	00001	2658
0020	0858	32648	695	2536	14824	0053	00005	2624
0030	0767	32655	716	2550	14791	0079	00012	2492
0050	0639 B	32673	723	2569	14744	0127	00032	2316
0075	0583	3271 B	712	2579	14726	0185	00068	2227
0100	0519	3274 I	704	2588	14704	0240	00117	2136
0125	0497	3306 I	690 B	2617	14704	0290	00175	1868
0150	0464	3348 E	555 C	2653	14699	0333	00235	1526
0175	0405	33592	420	2668	14681	0369	00296	1380

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
0200	0368	3367 B	356	2678	14670	0403	00360	1289
0225	0351	33702	310	2683	14667	0435	00430	1248
0250	0343	33732	275	2686	14668	0466	00506	1220
0300	0339	3381 B	210	2692	14676	0526	00675	1164
0400	0349	33978	115	2705	14699	0638	01074	1052
0500	0350	34097	082	2714	14717	0740	01545	0971
0600	0339	34180	067	2722	14731	0835	02079	0905
0700	0330	34243	060	2728	14744	0924	02673	0856
0800	0319	34298	057	2733	14757	1008	03322	0810
1000	0290	34382	059	2742	14779	1164	04757	0730
1200	0262	34438	064	2749	14801	1306	06356	0670
1500	0232	34505	071	2757	14839	1499	09031	0602
2000	0199 B	34582	130	2766	14911	1786	14162	0528
2500	0175	34628	197	2771	14987	2044	20119	0484
3000	0160	34651	259	2774	15067	2285	26971	0463
3500	0153	3467 B	307	2777	15152	2520	34843	0453
4000	0150 B	34672	323	2777	15238	2754	43956	0461

C-REF-NO 004	YR 1966	DEPTH C 4220	WAVES 1 00X0	AIR T 11.6	VIS 7
CONS. NO 025	MONTH 6	MXSAMPD 20	WAVES 2 00X0	WET B 08.8	STN 207
LAT 50-01 N	DAY 21	NO.DPTH 21	WND-DIR CALM	WW-CODE 02	
LON 145-01 W	HR 18.8	W-COLOR 10	WND-SPD 00	CLD-TPE 6	
MARSD SQ 195	C/I 1802	W-TRNSP 20	BARO 1016.0	CLD-AMT 5	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
188	0000	099 B	32657	674	2516	14870
188	0010	0933	32645	692	2525	14851
188	0020	0957 H	32643	702	2521	14861
188	0030	0924	32648	692	2526	14851
188	0050	0755 G	32641	740	2551	14789
188	0075	0627	32679	726	2571	14743
188	0100	0543 C	32682	695	2581	14713
188	0125	0485 B	32934	651	2608	14697
188	0150	0467	33361	531	2644	14699
188	0175	0418	33574	438	2666	14686
188	0200	0371	33658	360	2677	14671
188	0250	0345	33737	258	2686	14669
188	0300	0341	33820	193	2693	14677
188	0400	0350	33973	119	2704	14699
195	0500	0350	34110	072	2715	14718
195	0600	0341	34180	061	2721	14731
195	0800	0324	34296	059	2732	14759
195	1000	0291	34382	061	2742	14779
195	1200	0261	34441	054	2750	14801
195	1500	0230 B	34513	073	2758	14839
195	2000	0197	34585	124	2766	14910

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0990 B	32657	674	2516	14870	0000	00000	2812
0010	0933	32645	692	2525	14851	0028	00001	2735
0020	0957 H	32643	702	2521	14861	0056	00006	2775
0030	0924	32648	692	2526	14851	0083	00013	2722
0050	0755 G	32641	740	2551	14789	0136	00034	2489
0075	0627	32679	726	2571	14743	0196	00072	2301
0100	0543 C	32682	695	2581	14713	0253	00123	2203
0125	0485 B	32934	651	2608	14697	0305	00183	1953
0150	0467	33361	531	2644	14699	0350	00246	1616
0175	0418	33574	438	2666	14686	0388	00309	1407
0200	0371	33658	360	2677	14671	0422	00374	1299
0225	0351 B	3371 B	302	2683	14667	0454	00444	1246
0250	0345	33737	258	2686	14669	0485	00520	1218
0300	0341	33820	193	2693	14677	0545	00689	1155
0400	0350	33973	119	2704	14699	0657	01087	1057

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0500	0350	34110	072	2715	14718	0759	01556	0962
0600	0341	34180	061	2721	14731	0853	02088	0907
0700	0333	34242	058	2727	14746	0942	02684	0860
0800	0324	34296	059	2732	14759	1027	03338	0817
1000	0291	34382	061	2742	14779	1184	04779	0731
1200	0261	34441	054	2750	14801	1325	06375	0666
1500	0230 B	34513	073	2758	14839	1517	09023	0594
2000	0197	34585	124	2766	14910	1801	14101	0524

C-REF-NO 004	YR 1966	DEPTH C 4220	WAVES 1 3133	AIR T 08.8	VIS 7
CONS. NO 026	MONTH 6	MXSAMPD 03	WAVES 2 3144	WET B 07.7	STN 208
LAT 49-56 N	DAY 27	NO.DPTH 14	WND-DIR 310	WW-CODE 60	
LON 144-57 W	HR 19.2	W-COLOR	WND-SPD 11	CLD-TPE 7	
MARSD SQ 159	C/I 1802	W-TRNSP	BARO 1010.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
192	0000	094 B		673		
192	0007	0931	32641	674	2525	14849
192	0014	0930	32636	667	2524	14850
192	0021	0899	32643	675	2530	14840
192	0035	0663	32684	710	2567	14751
192	0053	0628	32683	706	2571	14740
192	0070	0584	32696	704	2578	14725
192	0088	0536	32717	690	2585	14709
192	0106	0496	32797	673	2596	14696
192	0123	0484	33107	659	2622	14698
192	0141	0459	33402	516	2648	14695
192	0176	0391	33634	389	2673	14675
192	0211	0361	33703	317	2682	14669
192	0300	0341	33819	198	2693	14677

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0940 B	3266 B	673	2524	14852	0000	00000	2736
0010	0932	32638	671	2524	14850	0028	00001	2738
0020	0906	32641	673	2529	14842	0055	00006	2699
0030	0750 H	32669	698	2554	14784	0081	00012	2459
0050	0624 D	32685	709	2572	14738	0129	00032	2289
0075	0570	32699	701	2579	14721	0185	00068	2219
0100	0507	3275 C	679	2591	14700	0240	00117	2110
0125	0482	33144	645	2625	14698	0289	00173	1792
0150	0441	3349 C	471 B	2657	14690	0330	00231	1491
0175	0393	33632	391	2673	14676	0366	00290	1338
0200	0368	3369 B	336	2680	14670	0399	00353	1271
0225	0343 C	3378 I	277 C	2690	14665	0430	00420	1179
0250	0332 B	3383 H	236 B	2694	14665	0459	00491	1138
0300	0341	33819	198	2693	14677	0517	00655	1156

C-REF-NO 004 YR 1966 DEPTH C 4220 WAVES 1 2722 AIR T 09.4 VIS 7
 CONS. NO 027 MONTH 6 MXSAMPD 42 WAVES 2 2733 WET B 07.7 STN 209
 LAT 50-01 N DAY 29 NO.DPTH 26 WND-DIR 270 WW-CODE 02
 LON 144-55 W HR 19.0 W-COLOR 10 WND-SPD 04 CLD-TPE 6
 MARSD SQ 195 C/I 1802 W-TRNSP 17 BARO 1017.0 CLD-AMT 6 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
190	0000	098 B	32647	667	2517	14866
190	0010	0948	32634	673	2521	14856
190	0019	0945	32634	665	2522	14856
190	0029	0770	32666	712	2551	14792
190	0048	0628	32679	707	2571	14739
190	0072	0541	32698	690	2583	14708
190	0096	0523	32769	687	2591	14706
190	0120	0507	32862	654	2600	14704
190	0144	0454	33362	520	2645	14693
190	0168	0415	33580	427	2666	14683
190	0192	0392	33653	379	2675	14679
190	0240	0346	33716	286	2684	14668
190	0288	0341	33805	206	2692	14675
190	0390	0346	33960	122	2704	14696
190	0489	0355	34083	084	2712	14718
190	0591	0340	34183	061	2722	14730
201	0762	0325 C	34284	059	2731	14753
201	0962	0295	34371	059	2741	14775
201	1158	0269	34429	060	2748	14797
201	1444	0235	34498	080	2756	14831
201	1926	0199	34588	120	2766	14899
201	2421	0176	34626	191	2771	14974
201	2943	0159	34649	249	2774	15057
201	3446	0152	34671	306	2777	15141
201	3965	0151 B	34684	322	2778	15232
201	4164	0152	34678	323	2777	15268

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0980 B	32647	667	2517	14866	0000	00000	2804
0010	0948	32634	673	2521	14856	0028	00001	2766
0020	0930 B	32637	669	2524	14851	0056	00006	2738
0030	0759	32667	713	2553	14788	0082	00012	2471
0050	0617	32680	706	2572	14735	0130	00032	2286
0075	0537	32705	690	2584	14707	0186	00068	2176
0100	0522	3277 C	686	2591	14706	0240	00116	2113
0125	0497	3296 F	629 B	2609	14702	0291	00175	1945
0150	0443	3344 B	493	2652	14690	0335	00236	1534
0175	0407	3361 B	411	2670	14682	0371	00297	1369

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0200	0383	33666	363	2677	14676	0405	00361	1304
0225	0358	3370 B	314	2682	14670	0437	00432	1256
0250	0343	33734	268	2686	14668	0469	00508	1219
0300	0341	33825	192	2693	14677	0528	00676	1151
0400	0347	33974	117	2704	14698	0640	01073	1054
0500	0354	34095	081	2714	14719	0742	01545	0977
0600	0339	34190	060	2722	14731	0837	02079	0898
0700	0330 B	34254	057	2728	14744	0925	02667	0848
0800	0320 C	34303	059	2733	14757	1009	03312	0807
1000	0290	34384	059	2742	14779	1164	04743	0728
1200	0264	34440	062	2749	14802	1306	06341	0669
1500	0230	34511	084	2758	14839	1498	08999	0595
2000	0195	34596	130	2767	14910	1780	14028	0513
2500	0173	34630	200	2772	14986	2032	19878	0479
3000	0158	34652	256	2775	15066	2272	26673	0459
3500	0152	34674	309	2777	15151	2504	34482	0449
4000	0151	34681	324	2778	15239	2736	43507	0457

C-REF-NO 004	YR 1966	DEPTH C 4261	WAVES 1 1022	AIR T 09.9	VIS 7
CONS. NO 028	MONTH 6	MXSAMPD 15	WAVES 2 1832	WET B 08.8	STN NN
LAT 49-18 N	DAY 30	NO.DPTH 20	WND-DIR 100	WW-CODE 02	
LON 143-55 W	HR 08.6	W-COLOR	WND-SPD 04	CLD-TPE 8	
MARSD SQ 159	C/I 1802	W-TRNSP	BARO 1018.0	CLD-AMT 5	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
086	0000	101 B	32644		2512	14877
086	0010	0991	32630		2514	14872
086	0020	0980	32633		2516	14870
086	0030	0862	32647		2536	14827
086	0050	0688	32677		2563	14763
086	0075	0611	32670		2572	14737
086	0100	0542	32706		2583	14713
086	0125	0518	32738		2589	14708
086	0150	0483	33235		2632	14704
086	0175	0451	33513		2657	14699
086	0200	0444	33664		2670	14702
086	0250	0397	33754		2682	14692
086	0300	0377	33805		2688	14692
086	0400	0366	33963		2702	14706
091	0500	0365 B	34082		2711	14724
091	0600	0353	34167		2719	14736
091	0800	0330	34284		2731	14761
091	1000	0294	34369		2741	14781
091	1200	0263	34436		2749	14802
091	1500	0234	34506		2757	14840

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1010 B	32644		2512	14877	0000	00000	2853
0010	0991	32630		2514	14872	0029	00001	2835
0020	0980	32633		2516	14869	0057	00006	2818
0030	0862	32647		2536	14827	0084	00013	2631
0050	0688	32677		2563	14763	0135	00033	2375
0075	0611	32670		2572	14737	0193	00071	2288
0100	0542	32706		2583	14713	0250	00121	2184
0125	0518	32738		2589	14708	0304	00184	2135
0150	0483	33235		2632	14704	0353	00252	1727
0175	0451	33513		2657	14699	0393	00319	1487
0200	0444	33664		2670	14702	0429	00388	1369
0225	0422 B	3373 D		2678	14697	0463	00461	1299
0250	0397	33754		2682	14692	0495	00539	1257
0300	0377	33805		2688	14692	0557	00714	1202
0400	0366	33963		2702	14706	0672	01125	1080
0500	0365 B	34082		2711	14724	0777	01608	0998

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0353	34167		2719	14736	0875	02157	0930
0700	0342	34232		2726	14749	0966	02766	0877
0800	0330	34284		2731	14761	1052	03432	0833
1000	0294	34369		2741	14781	1212	04900	0744
1200	0263	34436		2749	14802	1355	06516	0672
1500	0234	34506		2757	14840	1549	09198	0603

C-REF-NO 004	YR 1966	DEPTH C 4297	WAVES 1 1021	AIR T 10.5	VIS 6
CONS. NO 029	MONTH 6	MXSAMPD 15	WAVES 2 1432	WET B 09.4	STN NS
LAT 49-18 N	DAY 30	NO.DPTH 20	WND-DIR 100	WW-CODE 02	
LON 145-00 W	HR 18.3	W-COLOR 10	WND-SPD 06	CLD-TPE 6	
MARSD SQ 159	C/I 1802	W-TRNSP 20	BARO 1021.0	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
183	0000	100 B	32645		2514	14874
183	0010	0974	32631		2517	14866
183	0019	0971	32646		2519	14866
183	0029	0964	32629		2518	14865
183	0048	0834	32656		2541	14820
183	0072	0627	32688		2572	14743
183	0096	0549	32672		2580	14715
183	0120	0515 D	32766		2591	14706
183	0144	0523	33263		2630	14720
183	0168	0443	33492		2657	14694
183	0192	0402	33635		2672	14683
183	0241	0355	33709		2683	14672
183	0290	0355	33808		2691	14681
183	0390	0356	33949		2702	14700
188	0492	0357	34068		2711	14719
188	0591	0347	34155		2719	14732
188	0790	0322	34294		2732	14756
188	0988	0294	34373		2741	14779
188	1187	0264	34437		2749	14800
188	1485	0235	34496		2756	14838

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1000 B	32645		2514	14874	0000	00000	2837
0010	0974	32631		2517	14866	0028	00001	2808
0020	0971	32645		2518	14866	0057	00006	2796
0030	0959	32629		2519	14863	0085	00013	2790
0050	0815	32660		2544	14813	0138	00035	2558
0075	0613	32684		2573	14737	0199	00073	2279
0100	0540	3267 B		2581	14712	0256	00124	2209
0125	0519 D	3286 F		2599	14710	0309	00185	2042
0150	0505 B	3334 B		2637	14715	0356	00251	1675
0175	0428	33542		2662	14690	0395	00316	1442
0200	0391	3366 C		2675	14680	0430	00383	1320
0225	0365	3370 D		2681	14673	0463	00454	1264
0250	0353	33727		2684	14673	0494	00530	1234
0300	0355	33824		2692	14683	0555	00701	1166
0400	0356	33962		2703	14702	0668	01104	1071
0500	0356	34076		2712	14720	0772	01584	0994

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0346	34162		2720	14733	0869	02131	0926
0700	0334	34238		2727	14746	0959	02733	0864
0800	0321	34299		2733	14758	1044	03386	0811
1000	0292	34377		2742	14780	1201	04827	0735
1200	0265	34440		2749	14802	1343	06434	0671
1500	0234	34498		2756	14840	1538	09128	0609

C-REF-NO 004	YR 1966	DEPTH C 4297	WAVES 1 1633	AIR T 09.9	VIS 5
CONS. NO 030	MONTH 7	MXSAMPD 15	WAVES 2 1633	WET B 09.9	STN NG
LAT 49-18 N	DAY 01	NO.DPTH 20	WND-DIR 160	WW-CODE 63	
LON 146-06 W	HR 02.9	W-COLOR	WND-SPD 12	CLD-TPE 7	
MARSD SQ 159	C/I 1802	W-TRNSP	BARO 1022.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
029	0000	100 B	32604		2510	14873
029	0010	0983	32618		2514	14869
029	0020	0990	32615		2513	14873
029	0029	0984	32620		2514	14872
029	0049	0909 I	32707		2533	14849
029	0074	0664 I	32715		2569	14758
029	0098	0581 B	32718		2580	14729
029	0123	0550	32846		2593	14722
029	0148	0531	33289		2631	14724
029	0172	0496	33511		2652	14717
029	0197	0475	33670		2667	14714
029	0246	0418	33740		2679	14700
029	0295	0388	33813		2688	14696
029	0394	0366	33927		2699	14705
034	0493	0364	34040		2708	14722
034	0593	0355	34142		2717	14736
034	0793	0332	34283		2731	14761
034	0993	0298	34362		2740	14781
034	1193	0265				
034	1493	0231	34499		2757	14838

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1000 B	32604		2510	14873	0000	00000	2867
0010	0983	32618		2514	14869	0029	00001	2832
0020	0990	32615		2513	14873	0057	00006	2847
0030	0983	32624		2515	14872	0086	00013	2830
0050	0899 I	32708		2535	14845	0141	00036	2644
0075	0659 I	32714		2570	14756	0203	00075	2313
0100	0577 B	32720		2580	14728	0260	00126	2214
0125	0549	3288 B		2596	14722	0314	00188	2064
0150	0528	33313		2633	14724	0362	00254	1719
0175	0493	33534		2654	14716	0402	00322	1517
0200	0471	33679		2668	14714	0439	00392	1387
0225	0442	3373 D		2675	14706	0473	00467	1320
0250	0415	33746		2680	14699	0506	00546	1281
0300	0386	33819		2688	14696	0568	00723	1201
0400	0366	33934		2700	14706	0685	01138	1102
0500	0364	34048		2709	14723	0792	01631	1022

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0354	34148		2718	14737	0891	02191	0945
0700	0344	34227		2725	14750	0984	02807	0883
0800	0331	34286		2731	14762	1070	03474	0832
1000	0297	3438 C		2741	14782	1229	04938	0740
1200	0266	3445 C		2750	14803	1372	06541	0665
1500	0230	34499		2757	14839	1565	09212	0604

C-REF-NO 004	YR 1966	DEPTH C 3730	WAVES 1 1633	AIR T 10.5	VIS 4
CONS. NO 031	MONTH 7	MXSAMPD 15	WAVES 2 1633	WET B 09.9	STN OG
LAT 50-00 N	DAY 01	NO.DPTH 20	WND-DIR 160	WW-CODE 02	
LON 146-06 W	HR 23.9	W-COLOR 10	WND-SPD 12	CLD-TPE 7	
MARSD SQ 195	C/I 1802	W-TRNSP 15	BARO 1020.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
239	0000	099 B	32777		2526	14872
239	0010	0971	32652		2519	14865
239	0020	0969	32656		2520	14866
239	0030	0964	32651		2520	14865
239	0050	0682	32713		2567	14762
239	0075	0579	32715		2580	14724
239	0100	0522	32741		2588	14705
239	0125	0471	32753		2595	14689
239	0150	0512	33266		2631	14717
239	0175	0473	33553		2658	14708
239	0200	0451	33700		2672	14705
239	0250	0401	33746		2681	14693
239	0300	0366	33802		2689	14687
239	0400	0350	33943		2702	14699
*244	0494	0355	34053		2710	14718
*244	0595	0347	34149		2718	14733
*244	0793	0328	34285		2731	14759
*244	0989	0296	34365		2740	14779
*244	1185	0262	34436		2749	14799
*244	1480	0234 B	34500		2757	14837

*MULTIPLE CAST CONTINUED NEXT DAY

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0990 B	32777		2526	14872	0000	00000	2723
0010	0971	32652		2519	14865	0028	00001	2788
0020	0969	32656		2520	14866	0056	00006	2784
0030	0964	32651		2520	14865	0084	00013	2781
0050	0682	32713		2567	14762	0135	00034	2340
0075	0579	32715		2580	14724	0193	00070	2217
0100	0522	32741		2588	14705	0247	00119	2135
0125	0471	32753		2595	14689	0300	00180	2074
0150	0512	33266		2631	14717	0348	00247	1736
0175	0473	33553		2658	14708	0389	00314	1481
0200	0451	33700		2672	14705	0424	00383	1349
0225	0426	3374 E		2678	14699	0458	00455	1292
0250	0401	33746		2681	14693	0490	00534	1267
0300	0366	33802		2689	14687	0552	00709	1193
0400	0350	33943		2702	14699	0667	01118	1079

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0500	0355	34059		2711	14719	0772	01602	1004
0600	0347	34153		2719	14733	0870	02154	0933
0700	0338	34229		2726	14747	0961	02763	0875
0800	0327	34288		2731	14760	1047	03425	0826
1000	0294	34369		2741	14780	1206	04888	0743
1200	0263	34437		2749	14802	1349	06503	0671
1500	0232 B	34503		2757	14840	1543	09184	0604

C-REF-NO 004	YR 1966	DEPTH C 4352	WAVES 1 2633	AIR T 08.8	VIS 7
CONS. NO 032	MONTH 7	MXSAMPD 14	WAVES 2 2644	WET 8 07.7	STN GG
LAT 50-42 N	DAY 02	NO.DPTH 20	WNO-DIR 260	WW-CODE 01	
LON 146-08 W	HR 08.8	W-COLOR	WNO-SPD 09	CLD-TPE 8	
MARSD SQ 195	C/I 1802	W-TRNSP	BARO 1025.0	CLD-AMT 2	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
088	0000	094 B	32614		2521	14851
088	0009	0922	32610		2524	14846
088	0018	0922	32614		2524	14847
088	0027	0922	32611		2524	14849
088	0045	0692	32667		2562	14764
088	0068	0586	32679		2576	14726
088	0090	0493	32703		2589	14691
088	0113	0461	32787		2599	14683
088	0136	0411	33110		2630	14670
088	0158	0389	33476		2661	14669
088	0181	0374	33625		2674	14669
088	0226	0351	33733		2685	14668
088	0275	0337	33802		2692	14671
088	0371	0346	33957		2703	14693
094	0455	0346	34057		2711	14708
094	0553	0341	34142		2718	14723
094	0743	0324	34263		2730	14749
094	0930	0294	34344		2739	14768
094	1119	0267	34416		2747	14789
094	1418	0241 B	34477		2754	14829

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0940 B	32614		2521	14851	0000	00000	2766
0010	0922	32610		2524	14846	0028	00001	2743
0020	0925	32613		2523	14849	0055	00006	2749
0030	0890 E	32619		2529	14837	0083	00013	2693
0050	0660 C	32672		2566	14752	0133	00033	2343
0075	0553	32683		2580	14713	0191	00070	2210
0100	0476 B	3272 C		2592	14686	0245	00118	2101
0125	0434	3294 C		2613	14676	0295	00176	1898
0150	0395	3335 D		2650	14669	0339	00237	1548
0175	0377	3360 B		2672	14669	0375	00297	1346
0200	0363	3369 C		2680	14668	0408	00360	1269
0225	0351	33732		2685	14668	0440	00429	1226
0250	0343	33770		2689	14669	0470	00503	1191
0300	0337	33843		2695	14676	0529	00668	1135
0400	0347	33995		2706	14698	0638	01060	1037
0500	0344	34099		2715	14715	0739	01525	0964

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0338	34176		2722	14730	0834	02058	0907
0700	0329	34240		2727	14744	0923	02652	0857
0800	0315	34290		2733	14755	1007	03302	0812
1000	0283	34373		2742	14776	1163	04738	0729
1200	0259	34435		2749	14800	1305	06336	0669

C-REF-NO 004	YR 1966	DEPTH C 4279	WAVES 1 2623	AIR T 09.9	VIS 6
CONS. NO 033	MONTH 7	MXSAMPD 15	WAVES 2 2744	WET B 08.3	STN GS
LAT 50-42 N	DAY 02	NO.DPTH 20	WND-DIR 260	WW-CODE 02	
LON 145-00 W	HR 18.3	W-COLOR 10	WND-SPD 07	CLD-TPE 6	
MARSD SQ 195	C/I 1802	W-TRNSP 20	BARO 1028.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
183	0000	098 B	32609		2514	14866
183	0010	0964	32614		2517	14862
183	0019	0963	32614		2517	14863
183	0029	0788	32650		2547	14799
183	0048	0627	32668		2570	14739
183	0073	0523	32693		2585	14701
183	0097	0445	32770		2599	14673
183	0121	0465	33270		2637	14692
183	0146	0425	33515		2660	14683
183	0171	0396	33624		2672	14676
183	0196	0371	33678		2679	14671
183	0246	0342	33744		2687	14667
183	0295	0337	33818		2693	14674
183	0395	0348	33975		2705	14698
188	0477	0349	34071		2712	14713
188	0575	0344	34164		2720	14728
188	0772	0321	34290		2732	14753
188	0969	0293	34366		2741	14775
188	1165	0265	34431		2748	14796
188	1458	0239 B	34490		2755	14835

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0980 B	32609		2514	14866	0000	00000	2832
0010	0964	32614		2517	14862	0028	00001	2805
0020	0948 B	32617		2520	14858	0056	00006	2780
0030	0776	32652		2549	14794	0083	00013	2506
0050	0616	32669		2572	14735	0131	00032	2292
0075	0514	3269 B		2585	14697	0187	00068	2162
0100	0446 B	3283 D		2604	14675	0240	00114	1990
0125	0460	33323		2641	14692	0285	00167	1635
0150	0420	33539		2663	14682	0324	00221	1433
0175	0392	33635		2673	14675	0359	00279	1335
0200	0368	33684		2679	14670	0392	00342	1276
0225	0351	33719		2684	14668	0423	00411	1236
0250	0341	33750		2687	14668	0454	00486	1205
0300	0337	33826		2694	14675	0513	00653	1147
0400	0348	33982		2705	14699	0624	01049	1049
0500	0348	34095		2714	14717	0726	01518	0971

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0342	34184		2722	14732	0821	02053	0905
0700	0331	34252		2728	14745	0910	02644	0850
0800	0317	34303		2734	14756	0993	03289	0805
1000	0288	34377		2742	14778	1149	04721	0731
1200	0263	34438		2749	14802	1291	06323	0670

C-REF-NO 004	YR 1966	DEPTH C 3968	WAVES 1 2722	AIR T 10.5	VIS 6
CONS. NO 034	MONTH 7	MXSAMPD 15	WAVES 2 274X	WET B 08.8	STN GN
LAT 50-42 N	DAY 03	NO.DPTH 20	WND-DIR 270	WW-CODE 02	
LON 143-54 W	HR 04.1	W-COLOR 10	WND-SPD 05	CLD-TPE 4	
MARSD SQ 195	C/I 1802	W-TRNSP 19	BARO 1031.0	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
041	0000	100 B	32581		2509	14873
041	0010	0991	32566		2509	14871
041	0019	0990	32571		2510	14872
041	0028	0834	32601		2536	14816
041	0047	0635	32622		2565	14741
041	0070	0533	32648		2580	14704
041	0093	0482	32675		2588	14687
041	0117	0455	32711		2593	14680
041	0140	0430	33229		2637	14680
041	0163	0389	33489		2662	14670
041	0187	0361	33626		2676	14664
041	0235	0347	33775		2689	14668
041	0284	0350	33856		2695	14679
041	0383	0359	34000		2705	14701
045	0487	0362	34082		2712	14720
045	0592	0355	34174		2720	14736
045	0795	0331	34284		2731	14761
045	0992	0297	34361		2740	14780
045	1188	0267	34425		2748	14801
045	1485	0240	34502		2756	14840

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1000 B	32581		2509	14873	0000	00000	2884
0010	0991	32566		2509	14871	0029	00001	2883
0020	0976 B	32574		2512	14867	0058	00006	2854
0030	0806	32605		2541	14805	0085	00013	2584
0050	0616	32625		2568	14734	0135	00033	2324
0075	0519	32654		2582	14699	0191	00069	2195
0100	0473	3266 F		2587	14684	0246	00118	2144
0125	0447	3288 I		2608	14680	0298	00177	1954
0150	0412	3337 B		2650	14676	0342	00239	1556
0175	0373	3357 B		2670	14667	0379	00300	1366
0200	0354	33678		2680	14664	0412	00364	1267
0225	0347	33754		2687	14666	0443	00432	1206
0250	0347	33804		2691	14671	0473	00505	1170
0300	0352	33882		2697	14682	0531	00667	1119
0400	0360	34016		2707	14704	0639	01056	1035
0500	0362	34094		2713	14722	0741	01526	0986

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0354	34179		2720	14737	0838	02069	0922
0700	0344	34240		2726	14750	0928	02674	0873
0800	0330	34286		2731	14762	1015	03338	0831
1000	0296	34364		2740	14781	1175	04811	0749
1200	0267	34429		2748	14803	1319	06445	0681
1500	0239	34505		2757	14843	1516	09159	0610

C-REF-NO 004	YR 1966	DEPTH C 4114	WAVES 1 00X0	AIR T 09.4	VIS 5
CONS. NO 035	MONTH 7	MXSAMPD 15	WAVES 2 2865	WET B 08.3	STN ON
LAT 50-00 N	DAY 03	NO.DPTH 20	WND-DIR CALM	WW-CODE 50	
LON 143-54 W	HR 18.4	W-COLOR	WND-SPD 00	CLD-TPE 8	
MARSD SQ 195	C/I 1802	W-TRNSP	BARO 1031.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
184	0000	102 B	32637		2510	14881
184	0010	1002	32620		2511	14876
184	0020	1001	32621		2512	14877
184	0029	0996	32621		2512	14877
184	0049	0701	32675		2561	14768
184	0073	0589	32686		2576	14728
184	0098	0542	32697		2583	14713
184	0122	0525	32730		2587	14710
184	0147	0511	33111		2619	14714
184	0171	0442	33470		2655	14694
184	0196	0400	33627		2672	14682
184	0245	0357	33704		2682	14673
184	0294	0355	33796		2690	14682
184	0394	0365	33973		2703	14705
189	0487	0359	34071		2711	14719
189	0592	0347	34166		2720	14733
189	0795	0324	34293		2732	14758
189	0992	0295				
189	1188	0263	34453		2750	14800
189	1485	0233 B	34503		2757	14837

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1020 B	32637		2510	14881	0000	00000	2874
0010	1002	32620		2511	14876	0029	00001	2860
0020	1001	32621		2512	14877	0058	00006	2860
0030	0984 B	32623		2515	14872	0086	00013	2833
0050	0693	32676		2562	14765	0139	00034	2382
0075	0583	32686		2577	14726	0197	00071	2243
0100	0540	3269 B		2583	14712	0253	00121	2191
0125	0525	3277 B		2590	14711	0307	00184	2122
0150	0503	3316 B		2624	14711	0356	00253	1804
0175	0434	33505		2659	14691	0398	00321	1475
0200	0395	3364 B		2673	14681	0433	00389	1337
0225	0369	3369 D		2680	14675	0466	00461	1275
0250	0356	33713		2683	14674	0498	00539	1246
0300	0356	33808		2690	14683	0559	00711	1179
0400	0365	33980		2703	14706	0672	01115	1066
0500	0358	34084		2712	14721	0776	01593	0989

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0346	34172		2720	14734	0872	02136	0919
0700	0335	34240		2727	14746	0962	02736	0864
0800	0323	34296		2732	14759	1047	03391	0817
1000	0294	34390		2743	14781	1204	04829	0728
1200	0264	34457		2751	14802	1344	06411	0658
1500	0232 B	34504		2757	14839	1536	09063	0602

C-REF-NO 004 YR 1966 DEPTH C 3909 WAVES 1 XX AIR T 11.1 VIS 7
 CONS. NO 036 MONTH 7 MXSAMPD 04 WAVES 2 2743 WET B 08.8 STN 012
 LAT 49-49 N DAY 04 NO.DPTH 14 WND-DIR 990 WW-CODE 02
 LON 142-40 W HR 07.2 W-COLOR WND-SPD CLD-TPE 6
 MARSD SQ 159 C/I 1802 W-TRNSP BARO 1031.0 CLD-AMT 7 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
072	0000	107 B	32646		2502	14899
072	0010	1015	32617		2509	14880
072	0019	1010	32616		2510	14880
072	0029	0838	32633		2538	14818
072	0048	0705	32650		2559	14769
072	0072	0565				
072	0096	0530	32676		2582	14707
072	0121	0526	32788		2592	14711
072	0145	0503	33237		2630	14712
072	0169	0453	33542		2659	14699
072	0193	0447	33679		2671	14702
072	0241	0395	33743		2681	14689
072	0290	0376	33818		2689	14690
072	0386	0371	33940		2699	14706

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1070 B	32646		2502	14899	0000	00000	2949
0010	1015	32617		2509	14880	0029	00001	2883
0020	0995 B	32617		2512	14875	0058	00006	2853
0030	0828	32634		2540	14814	0086	00013	2591
0050	0691	32649		2560	14764	0136	00033	2399
0075	0557	3265 D		2577	14714	0194	00070	2239
0100	0529	3268 B		2583	14707	0250	00120	2189
0125	0524	3286 D		2597	14712	0303	00182	2053
0150	0492	33313		2637	14709	0350	00247	1678
0175	0450	33587		2663	14699	0389	00312	1430
0200	0440	3370 B		2673	14701	0424	00379	1340
0225	0413 B	3374 D		2679	14694	0457	00451	1285
0250	0390	33757		2683	14689	0489	00529	1247
0300	0367 B	33827		2691	14688	0550	00701	1176

C-REF-NO 004	YR 1966	DEPTH C 3880	WAVES 1 1922	AIR T 11.6	VIS 7
CONS. NO 037	MONTH 7	MXSAMPD 04	WAVES 2 2733	WET B 09.9	STN 011
LAT 49-41 N	DAY 04	NO.DPTH 13	WND-DIR 190	WW-CODE 02	
LON 140-40 W	HR 21.2	W-COLOR 10	WND-SPD 02	CLD-TPE 6	
MARSD SQ 159	C/I 1802	W-TRNSP 08	BARO 1031.0	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
212	0000	117 B	32534		2475	14933
212	0010	1102	32510		2486	14911
212	0029	0934	32524		2515	14853
212	0048	0757	32554		2544	14789
212	0072	0645	32583		2561	14749
212	0096	0539	32637		2578	14710
212	0121	0556	32855		2593	14724
212	0145	0531	33343		2635	14725
212	0169	0466	33582		2661	14705
212	0193	0443	33662		2670	14700
212	0241	0409	33741		2680	14695
212	0290	0424	33854		2687	14711
212	0388	0365	33919		2698	14703

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1170 B	32534		2475	14933	0000	00000	3202
0010	1102	32510		2486	14911	0032	00002	3105
0020	1017	32512		2500	14882	0062	00006	2967
0030	0924	32525		2517	14849	0091	00014	2813
0050	0745	32556		2546	14784	0145	00035	2539
0075	0628	32585		2563	14743	0207	00075	2372
0100	0539 B	32656		2580	14711	0265	00126	2217
0125	0555	3294 D		2600	14726	0318	00188	2029
0150	0517	33410		2642	14721	0364	00252	1634
0175	0458	3361 B		2664	14703	0403	00316	1421
0200	0436	33676		2672	14699	0438	00383	1351
0225	0417	3372 B		2677	14695	0471	00456	1301
0250	0411	33763		2681	14698	0503	00535	1265
0300	0400 G	3385 E		2689	14702	0566	00710	1196

C-REF-NO 004	YR 1966	DEPTH C 3889	WAVES 1 2521	AIR T 13.3	VIS 7
CONS. NO 038	MONTH 7	MXSAMPD 04	WAVES 2 2522	WET B 08.8	STN 010
LAT 49-34 N	DAY 05	NO.DPTH 14	WND-DIR 250	WW-CODE 02	
LON 138-40 W	HR 03.3	W-COLOR	WND-SPD 02	CLD-TPE 6	
MARSD SQ 158	C/I 1802	W-TRNSP	BARO 1032.0	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
033	0000	117 B	32523		2474	14933
033	0010	1151	32532		2479	14928
033	0020	1111	32492		2483	14915
033	0030	0818	32536		2534	14809
033	0050	0695	32564		2553	14765
033	0075	0573	32618		2573	14721
033	0100	0561	32955		2601	14724
033	0125	0496	33326		2638	14707
033	0150	0449	33562		2661	14694
033	0175	0426	33663		2672	14690
033	0200	0403	33724		2679	14685
033	0250	0380	33788		2687	14685
033	0300	0370	33842		2692	14690
033	0400	0365	33983		2703	14706

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1170 B	32523		2474	14933	0000	00000	3210
0010	1151	32532		2479	14928	0032	00002	3173
0020	1111	32492		2483	14915	0064	00006	3136
0030	0818	32536		2534	14809	0093	00014	2651
0050	0695	32564		2553	14765	0144	00035	2468
0075	0573	32618		2573	14721	0204	00073	2282
0100	0561	32955		2601	14724	0258	00121	2019
0125	0496	33326		2638	14707	0305	00174	1671
0150	0449	33562		2661	14694	0344	00229	1446
0175	0426	33663		2672	14690	0379	00288	1348
0200	0403	33724		2679	14685	0412	00351	1281
0225	0389	33761		2684	14684	0444	00420	1241
0250	0380	33788		2687	14685	0475	00496	1214
0300	0370	33842		2692	14690	0535	00665	1167
0400	0365	33983		2703	14706	0648	01067	1064

C-REF-NO 004	YR 1966	DEPTH C 3774	WAVES 1 3522	AIR T 10.5	VIS 7
CONS. NO 039	MONTH 7	MXSAMPD 35	WAVES 2 2722	WET B 09.4	STN 009
LAT 49-26 N	DAY 05	NO.DPTH 24	WND-DIR 350	WW-CODE 02	
LON 136-40 W	HR 10.0	W-COLOR	WND-SPD 02	CLD-TPE 7	
MARSD SQ 158	C/I 1802	W-TRNSP	BARO 1031.0	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
100	0000	116 B	32497		2474	14929
100	0010	1146	32487		2476	14926
100	0020	1144	32486		2476	14927
100	0030	1134	32486		2478	14925
100	0050	0764	32553		2543	14792
100	0075	0592	32564		2566	14728
100	0100	0552	32657		2578	14717
100	0124	0558	33380		2635	14733
100	0149	0547	33642		2657	14736
100	0174	0519	33749		2668	14730
100	0199	0474	33764		2675	14716
100	0249	0457	33846		2683	14718
100	0299	0446	33910		2689	14722
100	0399	0419	34019		2701	14729
100	0498	0400	34110		2710	14739
100	0598	0369	34173		2718	14743
108	0792	0338	34297		2731	14764
108	0990	0300	34369		2740	14781
108	1188	0269	34442		2749	14802
108	1485	0233 B	34507		2757	14837
108	1980	0192	34590		2767	14905
108	2483	0169	34627		2772	14981
108	2975	0158	34655		2775	15062
108	3467	0155 B	34669		2776	15146

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1160 B	32497		2474	14929	0000	00000	3212
0010	1146	32487		2476	14926	0032	00002	3197
0020	1144	32486		2476	14927	0064	00007	3197
0030	1134	32486		2478	14925	0096	00015	3181
0050	0764	32553		2543	14792	0154	00038	2567
0075	0592	32564		2566	14728	0216	00077	2345
0100	0552	32657		2578	14717	0274	00129	2232
0125	0558	33397		2636	14733	0323	00185	1688
0150	0546	33649		2657	14736	0363	00241	1489
0175	0517	33750		2669	14729	0399	00301	1382
0200	0473	33765		2675	14715	0433	00366	1324
0225	0459 B	3380 B		2680	14714	0466	00438	1282

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0250	0457	33847		2683	14718	0498	00516	1250
0300	0446	33911		2689	14722	0560	00689	1195
0400	0419	34020		2701	14729	0675	01102	1094
0500	0399	34111		2710	14739	0781	01592	1013
0600	0369	34174		2718	14743	0880	02148	0941
0700	0351	34241		2725	14753	0972	02761	0879
0800	0336	34300		2732	14764	1058	03425	0827
1000	0298	34373		2741	14782	1218	04891	0745
1200	0267	34445		2749	14804	1361	06506	0670
1500	0231 B	34510		2758	14839	1554	09171	0597
2000	0191	34592		2767	14908	1835	14197	0511
2500	0168	34628		2772	14984	2086	20007	0475
3000	0157	34655		2775	15066	2324	26747	0456
3500	0155 B	34670		2776	15153	2558	34603	0457

C-REF-NO 004	YR 1966	DEPTH C 3549	WAVES 1 3523	AIR T 12.2	VIS 7
CONS. NO 040	MONTH 7	MXSAMPD 04	WAVES 2 2734	WET B 10.5	STN 008
LAT 49-17 N	DAY 05	NO.DPTH 14	WND-DIR 350	WW-CODE 02	
LON 134-40 W	HR 17.6	W-COLOR 10	WND-SPD 07	CLD-TPE 6	
MARSD SQ 158	C/I 1802	W-TRNSP 11	BARO 1032.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
176	0000	118 B	32530		2473	14937
176	0010	1169				
176	0019	1166	32524		2475	14935
176	0029	C887	32545		2524	14835
176	0048	C771	32557		2542	14794
176	0072	C614	32618		2568	14737
176	0097	C585	32648		2574	14729
176	0121	C561	32754		2585	14725
176	0145	C560	33354		2632	14737
176	0169	C537	33648		2658	14735
176	0194	C518	33721		2666	14732
176	0243	C456	33771		2677	14715
176	0293	C425	33837		2686	14712
176	0392	C403	33948		2697	14720

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1180 B	32530		2473	14937	0000	00000	3222
0010	1169	32529		2475	14934	0032	00002	3206
0020	1141 C	32526		2480	14926	0064	00007	3162
0030	0874 B	32546		2526	14831	0094	00014	2724
0050	0756	32562		2545	14789	0147	00036	2549
0075	0607	32620		2569	14734	0208	00074	2320
0100	0581	3265 C		2574	14728	0266	00126	2274
0125	0561	3285 F		2592	14727	0321	00190	2102
0150	0556	33437		2639	14737	0368	00256	1658
0175	0533	3368 B		2661	14735	0408	00321	1454
0200	0510	33730		2668	14730	0444	00390	1392
0225	0479 B	3376 B		2674	14722	0478	00465	1338
0250	0450	33780		2679	14714	0511	00545	1293
0300	0416 B	33840		2687	14709	0574	00724	1217
0400	0405	33958		2697	14722	0693	01146	1125

C-REF-NO 004 YR 1966 DEPTH C 3275 WAVES 1 3324 AIR T 13.8 VIS 7
 CONS. NO 041 MONTH 7 MXSAMPD 04 WAVES 2 3324 WET B 11.6 STN 007
 LAT 49-10 N DAY 05 NO.DPTH 14 WND-DIR 330 WW-CODE 01
 LON 132-40 W HR 23.6 W-COLOR 10 WND-SPD 15 CLD-TPE 8
 MARSD SQ 158 C/I 1802 W-TRNSP 10 BARO 1026.0 CLD-AMT 4 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
236	0000	124 B	32214		2437	14953
236	0010	1202	32156		2440	14941
236	0020	1192	32177		2444	14940
236	0030	0998	32443		2498	14875
236	0050	0828	32504		2530	14816
236	0075	0645	32564		2560	14749
236	0100	0597	32655		2573	14735
236	0125	0596	33054		2604	14744
236	0150	0578	33514		2643	14747
236	0175	0562	33653		2656	14746
236	0200	0537	33714		2664	14741
236	0250	0482	33794		2676	14728
236	0300	0462	33869		2684	14729
236	0400	0399	33962		2698	14720

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1240 B	32214		2437	14953	0000	00000	3562
0010	1202	32156		2440	14941	0036	00002	3539
0020	1192	32177		2444	14940	0071	00007	3508
0030	0998	32443		2498	14875	0104	00015	2989
0050	0828	32504		2530	14816	0161	00039	2692
0075	0645	32564		2560	14749	0225	00079	2408
0100	0597	32655		2573	14735	0284	00132	2285
0125	0596	33054		2604	14744	0338	00194	1989
0150	0578	33514		2643	14747	0383	00257	1627
0175	0562	33653		2656	14746	0423	00323	1507
0200	0537	33714		2664	14741	0460	00394	1435
0225	0508	33758		2670	14734	0495	00471	1371
0250	0482	33794		2676	14728	0529	00554	1318
0300	0462	33869		2684	14729	0594	00736	1244
0400	0399	33962		2698	14720	0713	01160	1116

C-REF-NO 004	YR 1966	DEPTH C 2929	WAVES 1 3333	AIR T 12.2	VIS 6
CONS. NO 042	MONTH 7	MXSAMPD 14	WAVES 2 3535	WET B 11.1	STN 006
LAT 49-02 N	DAY 06	NO.DPTH 20	WND-DIR 330	WW-CODE 02	
LON 130-40 W	HR 06.0	W-COLOR	WND-SPD 10	CLD-TPE 7	
MARSD SQ 158	C/I 1802	W-TRNSP	BARO 1021.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
060	0000	120 B				
060	0009	1180	32467		2468	14937
060	0019	1178	32465		2468	14938
060	0028	1176	32465		2469	14939
060	0046	0872	32530		2525	14832
060	0070	0763	32623		2548	14795
060	0093	0742	32857		2570	14794
060	0116	0743 B	33315		2606	14804
060	0139	0732	33686		2636	14809
060	0162	0705	33804		2649	14803
060	0186	0675	33862		2658	14796
060	0234	0636	33914		2667	14789
060	0283	0587	33958		2677	14778
060	0381	0498	33982		2689	14758
065	0466	0476	34071		2699	14765
065	0563	0432	34143		2709	14763
065	0759	0379	34257		2724	14775
065	0952	0344	34366		2736	14754
065	1145	0287	34416		2745	14802
065	1437	0247	34489		2755	14835

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1200 B	3249 C		2466	14943	0000	00000	3289
0010	1179	32466		2468	14937	0033	00002	3271
0020	1180	32464		2468	14939	0066	00007	3276
0030	1147 E	32470		2474	14929	0099	00015	3216
0050	0839 C	32540		2531	14820	0158	00039	2681
0075	0754	32658		2552	14793	0223	00080	2479
0100	0742	3299 D		2580	14797	0282	00133	2219
0125	0740	3348 B		2619	14807	0333	00191	1856
0150	0720	3376 C		2644	14807	0377	00253	1623
0175	0688	33841		2654	14799	0417	00319	1525
0200	0663	33882		2661	14794	0454	00391	1465
0225	0643	33908		2666	14790	0491	00470	1423
0250	0620	33930		2670	14786	0526	00556	1381
0300	0569	3396 B		2679	14774	0594	00747	1299
0400	0492	34000		2691	14759	0719	01195	1190
0500	0461	34099		2703	14764	0834	01725	1092

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0419	34166		2713	14764	0940	02321	1003
0700	0392	34225		2720	14770	1038	02974	0937
0800	0372	34283		2727	14779	1130	03681	0880
1000	0330	34381		2739	14796	1297	05220	0774
1200	0287 C	3444 C		2748	14812	1446	06894	0692

C-REF-NO 004	YR 1966	DEPTH C 2529	WAVES 1 3233	AIR T 12.7	VIS 7
CONS. NO 043	MONTH 7	MXSAMPD 04	WAVES 2 3335	WET B 11.6	STN 005
LAT 48-51 N	DAY 06	NO.DPTH 14	WND-DIR 320	WW-CODE 02	
LON 128-40 W	HR 13.2	W-COLOR	WND-SPD 12	CLD-TPE 4	
MARSD SQ 157	C/I 1802	W-TRNSP	BARO 1015.0	CLD-AMT 2	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
132	0000	125 B	32366		2447	14959
132	0009	1249	32363		2447	14960
132	0018	1247 B	32360		2447	14961
132	0027	1248	32358		2447	14962
132	0046	0822	32457		2527	14812
132	0068	0692	32625		2558	14767
132	0091	0666	33000		2591	14766
132	0114	0693	33428		2621	14786
132	0137	0667	33650		2642	14782
132	0160	0656	33742		2651	14783
132	0184	0622	33796		2660	14774
132	0232	0540	33813		2671	14749
132	0281	0495	33854		2680	14739
132	0379	0440	33932		2692	14733

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1250 B	32366		2447	14959	0000	00000	3468
0010	1249	32363		2447	14960	0035	00002	3471
0020	1253 C	32358		2446	14963	0070	00007	3484
0030	1190 I	32368		2459	14943	0104	00016	3367
0050	0780 D	32478		2535	14797	0165	00040	2644
0075	0675	3273 B		2568	14763	0227	00080	2326
0100	0677 B	3318 D		2604	14774	0282	00128	1994
0125	0683 B	33555		2633	14785	0328	00181	1724
0150	0661	33712		2648	14783	0370	00240	1582
0175	0636	33780		2656	14778	0409	00304	1503
0200	0594	3381 B		2664	14765	0446	00376	1433
0225	0551	33814		2670	14752	0481	00453	1380
0250	0521	33827		2674	14744	0516	00536	1337
0300	0472 B	3386 B		2683	14733	0581	00721	1261

C-REF-NO 004 YR 1966 DEPTH C 2499 WAVES 1 4922 AIR T 13.3 VIS 6
 CONS. NO 044 MONTH 7 MXSAMPD 24 WAVES 2 3333 WET B 12.2 STN 004
 LAT 48-46 N DAY 06 NO.DPTH 22 WND-DIR 990 WW-CODE 03
 LON 127-40 W HR 16.6 W-COLOR 10 WND-SPD 01 CLD-TPE 4
 MARSD SQ 157 C/I 1802 W-TRNSP 16 BARO 1014.0 CLD-AMT 6 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
166	0000	130 B	32304		2433	14975
166	0010	1278	32220		2431	14968
166	0020	1278	32232		2432	14970
166	0030	1276	32350		2441	14972
166	0050	0858	32553		2529	14828
166	0075	0775	32626		2547	14801
166	0100	0750	32918		2573	14799
166	0125	0767	33480		2615	14817
166	0150	0755	33696		2634	14819
166	0175	0731	33820		2647	14816
166	0200	0689	33860		2656	14804
166	0250	0636	33928		2668	14792
166	0300	0587	33967		2677	14781
166	0400	0523	34030		2690	14772
166	0500	0476	34084		2700	14770
166	0600	0443	34168		2710	14774
173	0798	0403 B	34299		2725	14792
173	0996	0347	34397		2738	14803
173	1193	0303	34447		2746	14818
173	1493	0252 B	34515		2756	14847
173	1986	0191	34594		2768	14905
173	2391	0176	34629		2771	14969

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1300 B	32304		2433	14975	0000	00000	3606
0010	1278	32220		2431	14968	0036	00002	3630
0020	1278	32232		2432	14970	0073	00007	3623
0030	1276	32350		2441	14972	0109	00017	3535
0050	0858	32553		2529	14828	0171	00041	2698
0075	0775	32626		2547	14801	0237	00083	2531
0100	0750	32918		2573	14799	0298	00137	2283
0125	0767	33480		2615	14817	0350	00197	1893
0150	0755	33696		2634	14819	0396	00261	1719
0175	0731	33820		2647	14816	0438	00331	1598
0200	0689	33860		2656	14804	0477	00406	1516
0225	0660	33897		2663	14797	0514	00487	1453
0250	0636	33928		2668	14792	0550	00575	1403
0300	0587	33967		2677	14781	0619	00768	1318

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0400	0523	34030		2690	14772	0746	01223	1205
0500	0476	34084		2700	14770	0864	01763	1120
0600	0443	34168		2710	14774	0972	02374	1029
0700	0422 B	34239		2718	14783	1073	03044	0961
0800	0402 B	34300		2725	14792	1167	03769	0902
1000	0346	34398		2738	14803	1337	05332	0780
1200	0302	34449		2747	14818	1488	07029	0706
1500	0251 B	34516		2756	14848	1688	09803	0615
2000	0192 B	34596		2768	14908	1974	14895	0511

C-REF-NO 004	YR 1966	DEPTH C 1300	WAVES 1 1321	AIR T 13.8	VIS 7
CONS. NO 045	MONTH 7	MXSAMPD 12	WAVES 2 2821	WET B 12.7	STN 003
LAT 48-42 N	DAY 06	NO.DPTH 19	WND-DIR 130	WW-CODE 02	
LON 126-40 W	HR 21.0	W-COLOR 30	WND-SPD 02	CLD-TPE 8	
MARSD SQ 157	C/I 1802	W-TRNSP 16	BARO 1016.0	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
210	0000	133 B	32054		2408	14982
210	0010	1266 B	32089		2423	14962
210	0020	1000	32485		2501	14875
210	0030	0887	32486		2519	14835
210	0050	0811	32540		2535	14810
210	0075	0746	32754		2561	14791
210	0100	0762	33394		2609	14810
210	0125	0753	33679		2633	14814
210	0150	0721	33811		2648	14808
210	0175	0695	33881		2657	14803
210	0200	0674	33906		2661	14799
210	0250	0624	33944		2671	14787
210	0300	0578	33968		2679	14778
210	0400	0527	34018		2689	14774
214	0497	0484	34106		2701	14773
214	0597	0451	34174		2710	14777
214	0797	0403 B	34290		2724	14792
214	0997	0353	34377		2736	14805
214	1154	0315	34431		2744	14816

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1330 B	32054		2408	14982	0000	00000	3846
0010	1266 B	32089		2423	14962	0038	00002	3704
0020	1000	32485		2501	14875	0071	00007	2959
0030	0887	32486		2519	14835	0100	00014	2787
0050	0811	32540		2535	14810	0155	00036	2641
0075	0746	32754		2561	14791	0218	00077	2397
0100	0762	33394		2609	14810	0273	00125	1946
0125	0753	33679		2633	14814	0319	00178	1725
0150	0721	33811		2648	14808	0361	00237	1587
0175	0695	33881		2657	14803	0400	00301	1504
0200	0674	33906		2661	14799	0437	00373	1462
0225	0649	33927		2666	14793	0473	00452	1417
0250	0624	33944		2671	14787	0509	00538	1375
0300	0578	33968		2679	14777	0576	00729	1306
0400	0527	34018		2689	14774	0704	01184	1219
0500	0483	34108		2701	14773	0821	01725	1110
0600	0450	34176		2710	14777	0929	02334	1031

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
0700	0425	34237		2718	14784	1030	03007	0966
0800	0402 B	34291		2724	14792	1125	03736	0908
1000	0353	34379		2736	14806	1298	05328	0802

C-REF-NO 004 YR 1966 DEPTH C 109 WAVES 1 081X AIR T 14.9 VIS 7
 CONS. NO 046 MONTH 7 MXSAMPD 01 WAVES 2 XX WET B 12.7 STN 002
 LAT 48-38 N DAY 06 NO.DPTH 7 WND-DIR 080 WW-CODE 02
 LON 126-00 W HR 23.7 W-COLOR 40 WND-SPD 03 CLD-TPE 2
 MARSD SQ 157 C/I 1802 W-TRNSP 14 BARO 1016.0 CLD-AMT 2 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
237	0000	142 B	31927		2380	15010
237	0010	1386	31924		2386	15001
237	0020	0925	32306		2499	14845
237	0030	0795	32669		2547	14802
237	0050	0735	33064		2587	14787
237	0075	0698 B	33438		2621	14781
237	0100	0699	33834		2652	14791

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1420 B	31927		2380	15010	0000	00000	4113
0010	1386	31924		2386	15001	0041	00002	4052
0020	0925	32306		2499	14845	0076	00007	2976
0030	0795	32669		2547	14802	0104	00014	2520
0050	0735	33064		2587	14787	0151	00033	2147
0075	0698 B	33438		2621	14781	0201	00065	1823
0100	0699	33834		2652	14791	0243	00102	1533

C-REF-NO 004 YR 1966 DEPTH C 128 WAVES 1 COXC AIR T 14.4 VIS 7
 CONS. NO 047 MONTH 7 MXSAMPD 01 WAVES 2 XX WET B 12.7 STN 001
 LAT 48-33 N DAY 07 NO.DPTH 7 WND-DIR 990 WW-CODE 02
 LON 125-33 W HR 01.4 W-COLOR 40 WND-SPD CLD-TPE 3
 MARSD SQ 157 C/I 1802 W-TRNSP 10 BARO 1016.0 CLD-AMT 3 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
C14	0000	140 B	32407		2421	15010
C14	0010	1143 B	32461		2475	14924
C14	0020	0903	32567		2523	14840
C14	0030	0851	32744		2545	14824
C14	0050	0776	33090		2583	14803
C14	0075	0710	33463		2622	14787
014	0099	0687	33596		2635	14783

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1400 B	32407		2421	15010	0000	00000	3722
0010	1143 B	32461		2475	14924	0035	00002	3211
0020	0903	32567		2523	14840	0065	00006	2749
0030	0851	32744		2545	14824	0091	00013	2543
0050	0776	33090		2583	14803	0139	00032	2183
0075	0710	33463		2622	14787	0189	00064	1821
0100	0687	33600		2636	14783	0234	00103	1692

SECTION IV

Bathythermograms

EXPLANATION OF DATA HEADINGS IN TABLE 1

CON No:	The consecutive BT slide number.
LAT:)	
) Deg	
) Min	Position of platform at time of BT lowering.
LONG:)	
DATE: Day	Day
Mon	Month
Yr	Year
GMT: Hrs	The Greenwich Mean Time at which the BT lowering
Min	was made.
DEPTH: Fms	Depth to bottom in fathoms, as read from U.S.
Chart	Coast and Geodetic Survey Chart 8500.
BAR: Mbs	Barometric pressure; prefix all listed
	values by 10, or by 9 if a minus (-) sign
	is present to obtain the pressure in whole
	millibars.
	eq. 02 = 1002 mbs
	17 = 1017 mbs
	-98 = 998 mbs
	-86 = 986 mbs
WW Code:	Refer to Table 7, Section II.
WIND Amt:	Wind speed in meters per second.
W-1:)	
) P	
) H	Waves 1 and 2. Refer to Tables 4&5, Section II.
W-2:)	
CLOUD: T	Refer to Tables 8&9, Section II.
A	

CCGS "ST. CATHARINES" P-66-2

BATHYTHERMOGRAMS

TABLE I

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	W W Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
001	48	33	125	33	27	05	66	23	36		24	02	25	32	32	6	2		
002	48	38	126	00	28	05	66	01	44		23	03	20	22	22	4	6		
003	48	42	126	40	28	05	66	04	15	1300	23	02	10	22	32	8	2		
004	48	46	127	40	28	05	66	08	30	2500	22	03	10	22	22	8	6		
005	48	51	128	40	28	05	66	13	42	2529	23	02	30	22	33	6	6		
006	48	55	129	40	28	05	66	17	30	2601	25	02	20	22	33	9	2		
007	49	02	130	40	28	05	66	20	30	2930	25	02	15	22	22	6	5		
008	49	04	131	40	29	05	66	01	10	2875	26	02	15	22	33	6	7		
009	49	10	132	40	29	05	66	04	30	3275	26	02	15	23	33	6	5		
010	49	13	133	40	29	05	66	08	00	3200	27	60	20	23	33	6	7		
011	49	17	134	40	29	05	66	10	40	3550	27	60	15	23	33	7	8		
012	49	21	135	40	29	05	66	15	00	3200	28	03	20	23	44	6	8		
013	49	26	136	40	29	05	66	18	00	3775	29	02	18	23	33	7	7		
014	49	30	137	40	29	05	66	23	00	3850	30	02	20	23	33	3	6		
015	49	34	138	40	30	05	66	02	00	3890	32	02	20	22	33	6	8		
016	49	38	139	40	30	05	66	05	50	3840	33	02	15	22	33	7	8		
017	49	41	140	40	30	05	66	09	00	3881	35	02	05	22	33	7	8		
018	49	46	141	40	30	05	66	12	45	3972	35	02	04	22	23	6	5		
019	49	49	142	40	30	05	66	17	00	3910	35	02	00	XX	XX	4	7		
020	50	00	143	55	30	05	66	23	00	4115	35	02	05	XX	XX	1	4		
021	50	42	143	52	31	05	66	06	30	3968	35	03	05	XX	XX	2	5		
022	50	42	145	00	31	05	66	15	42	4279	31	02	12	21	33	4	7		
023	50	42	146	08	01	06	66	01	30	4353	27	02	15	21	33	7	8		
024	50	00	146	06	01	06	66	11	18	3731	24	60	18	21	23	X	9		
025	49	18	146	05	01	06	66	19	00	4298	19	43	20	23	34	X	9		

TABLE I

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
026	49	18	145	00	02	06	66	04	50	4298	18	45	25	23	35			X	9
027	50	02	144	59	02	06	66	18	00	4221	16	45	16	34	43			X	9
028	50	07	145	03	02	06	66	21	00	4221	15	43	22	25	34			X	9
029	50	05	145	03	03	06	66	00	00	4221	15	10	19	35	34			7	8
030	50	03	145	01	03	06	66	03	00	4221	15	10	25	35	35			7	8
031	50	02	144	57	03	06	66	06	00	4221	15	45	17	34	34			X	9
032	50	01	145	01	03	06	66	09	00	4221	15	45	14	34	XX			X	9
033	50	00	145	01	03	06	66	12	00	4221	16	51	09	32	XX			X	9
034	50	01	145	01	03	06	66	15	00	4221	16	10	08	21	32			7	7
035	50	08	145	05	03	06	66	18	00	4221	17	47	08	21	32			7	9
036	50	08	145	05	03	06	66	18	30	4221	19	42	05	22	33			8	4
037	50	10	145	05	03	06	66	21	00	4221	17	02	05	21	32			7	8
038	50	13	145	06	04	06	66	00	00	4221	17	02	04	21	31			6	7
039	50	02	144	55	04	06	66	03	00	4221	18	15	04	21	21			7	8
040	50	02	144	57	04	06	66	06	00	4221	18	10	06	21	21			7	8
041	50	02	144	59	04	06	66	09	00	4221	18	10	06	21	XX			7	8
042	50	01	145	00	04	06	66	12	00	4221	18	51	09	21	XX			7	8
043	50	03	145	05	04	06	66	15	00	4221	18	41	10	22	32			7	8
044	50	03	145	07	04	06	66	18	00	4221	19	10	09	22	32			7	7
045	50	04	145	10	04	06	66	21	00	4221	19	02	10	21	41			7	8
046	50	07	145	10	05	06	66	00	00	4221	19	02	10	22	22			7	8
047	50	03	145	14	05	06	66	03	00	4221	19	47	10	22	22			X	9
048	50	05	145	18	05	06	66	06	00	4221	19	45	09	21	22			X	9
049	50	01	145	01	05	06	66	09	00	4221	20	43	14	23	XX			X	9
050	50	00	145	02	05	06	66	12	00	4221	19	45	14	22	XX			X	9

TABLE I

CON No	LAT		LONG		DATE			GMT		DEPTH fms Chart	BAR Mbs	W W Code	WIND Amf	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
051	50	08	145	08	05	06	66	15	00	4221	19	10	16	23	33	7	8		
052	50	00	145	01	05	06	66	18	00	4221	19	47	12	23	22	X	9		
053	50	00	145	04	05	06	66	21	00	4221	18	10	16	23	33	7	8		
054	50	06	145	06	06	06	66	00	00	4221	17	46	16	23	33	7	8		
055	50	02	145	10	06	06	66	03	00	4221	15	46	18	25	34	7	8		
056	50	04	145	15	06	06	66	06	00	4221	14	44	21	34	33	7	8		
057	50	01	144	59	06	06	66	09	00	4221	13	45	17	33	XX	X	9		
058	50	04	145	00	06	06	66	12	00	4221	11	44	14	33	XX	7	8		
059	50	05	145	04	06	06	66	15	00	4221	10	51	16	33	34	7	8		
060	50	00	145	00	06	06	66	18	00	4221	10	10	21	34	33	7	8		
061	50	02	145	01	06	06	66	19	00	4221	11	47	18	23	34	X	9		
062	50	02	145	04	06	06	66	21	00	4221	09	51	16	34	32	7	8		
063	50	02	145	04	07	06	66	00	00	4221	07	58	18	34	33	7	8		
064	50	06	145	09	07	06	66	03	00	4221	06	61	16	34	33	7	8		
065	50	04	145	04	07	06	66	06	00	4221	05	51	24	35	34	7	8		
066	50	01	145	02	07	06	66	09	00	4221	05	51	12	23	34	7	8		
067	50	06	145	06	07	06	66	12	00	4221	06	10	07	21	XX	7	8		
068	49	57	145	00	07	06	66	15	00	4221	07	10	06	21	33	7	8		
069	50	02	144	59	07	06	66	18	00	4221	09	02	10	22	33	6	8		
070	50	03	145	01	07	06	66	21	00	4221	09	02	12	22	33	6	8		
071	50	07	145	03	08	06	66	00	00	4221	10	02	04	21	32	6	6		
072	50	06	145	03	08	06	66	03	00	4221	10	02	06	32	42	6	6		
073	50	08	145	03	08	06	66	06	00	4221	09	02	11	22	43	6	7		
074	50	01	145	00	08	06	66	09	00	4221	08	61	19	33	XX	7	8		
075	50	01	144	59	08	06	66	12	00	4221	05	10	16	33	XX	7	8		

TABLE I

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
076	49	59	144	57	08	06	66	15	00	4221	03	02	20	34	33	6	8		
077	50	05	145	00	08	06	66	18	00	4221	02	61	17	34	33	6	8		
078	49	59	144	59	08	06	66	19	50	4221	03	61	23	33	34	7	8		
079	50	00	145	00	08	06	66	21	00	4221	00	61	22	25	33	7	8		
080	50	05	145	05	09	06	66	00	00	4221	-98	10	17	35	33	7	8		
081	50	03	145	04	09	06	66	03	00	4221	-97	46	13	35	33	7	8		
082	50	06	145	04	09	06	66	06	00	4221	-97	47	06	21	33	X	9		
083	50	01	145	01	09	06	66	09	00	4221	-97	47	08	21	XX	X	9		
084	50	07	145	00	09	06	66	12	00	4221	-96	21	17	XX	XX	7	8		
085	50	00	145	00	09	06	66	15	00	4221	-96	02	17	35	44	6	8		
086	49	56	144	56	09	06	66	18	00	4221	-97	02	15	32	44	6	7		
087	49	57	144	52	09	06	66	21	00	4221	-98	02	13	32	44	0	4		
088	49	55	144	51	10	06	66	00	00	4221	-99	02	08	32	44	3	2		
089	50	00	144	48	10	06	66	03	00	4221	-99	03	06	32	55	6	5		
090	50	01	144	48	10	06	66	06	00	4221	-98	02	12	22	44	6	8		
091	50	01	145	01	10	06	66	09	00	4221	-96	61	12	22	XX	7	8		
092	50	05	144	59	10	06	66	12	00	4221	-94	61	16	22	XX	6	8		
093	49	58	144	56	10	06	66	15	00	4221	-95	02	16	32	34	6	7		
094	49	59	144	58	10	06	66	18	00	4221	-97	02	21	23	XX	6	7		
095	50	00	144	58	10	06	66	21	00	4221	01	25	22	33	75	6	8		
096	50	00	144	53	11	06	66	00	00	4221	04	01	24	45	34	8	3		
097	49	59	145	00	11	06	66	03	00	4221	06	02	22	45	34	8	6		
098	49	57	145	06	11	06	66	06	00	4221	07	02	23	45	34	6	8		
099	49	57	145	14	11	06	66	09	00	4221	07	02	25	45	XX	6	8		
100	49	57	145	15	11	06	66	12	00	4221	07	02	15	34	XX	6	8		

TABLE I

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	W W Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
101	49	59	145	00	11	06	66	15	00	4221	07	15	15	33	44	8	8		
102	49	54	144	55	11	06	66	18	00	4221	08	15	17	33	44	6	8		
103	49	55	144	55	11	06	66	19	00	4221	10	02	15	33	34	6	5		
104	49	56	144	54	11	06	66	21	00	4221	09	02	17	33	45	6	7		
105	49	58	144	47	12	06	66	00	00	4221	09	15	14	23	45	6	8		
106	49	57	144	55	12	06	66	03	00	4221	09	01	12	34	45	6	5		
107	49	56	145	02	12	06	66	06	00	4221	10	02	16	33	44	6	8		
108	49	56	144	56	12	06	66	09	00	4221	10	02	14	33	XX	6	8		
109	49	59	144	50	12	06	66	12	00	4221	11	80	15	33	XX	6	8		
110	49	56	144	56	12	06	66	15	00	4221	11	15	14	33	44	6	7		
111	49	55	144	52	12	06	66	18	00	4221	12	02	08	43	34	6	7		
112	49	58	144	57	12	06	66	21	00	4221	13	02	10	33	44	6	8		
113	49	59	144	45	13	06	66	00	00	4221	14	25	12	33	44	6	8		
114	49	56	144	56	13	06	66	03	00	4221	14	02	08	33	43	6	6		
115	49	58	144	53	13	06	66	06	00	4221	16	02	10	22	43	6	8		
116	50	01	144	47	13	06	66	09	00	4221	17	02	07	22	XX	6	8		
117	50	04	144	46	13	06	66	12	00	4221	18	02	07	22	XX	6	6		
118	49	59	145	01	13	06	66	15	00	4221	19	10	10	22	43	7	8		
119	50	01	144	58	13	06	66	18	00	4221	20	02	08	21	43	6	8		
120	50	00	144	56	13	06	66	19	00	4221	22	02	05	22	33	4	6		
121	50	00	144	55	13	06	66	21	00	4221	21	02	09	22	43	6	6		
122	50	02	144	56	14	06	66	00	00	4221	21	02	10	32	33	6	8		
123	50	04	144	56	14	06	66	03	00	4221	21	02	06	21	22	3	6		
124	50	06	144	55	14	06	66	06	00	4221	22	02	07	21	32	3	6		
125	50	00	144	58	14	06	66	09	00	4221	22	01	13	22	XX	6	3		

TABLE I

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
126	50	01	145	00	14	06	66	12	00	4221	22	02	13	22	XX			6	5
127	49	56	145	03	14	06	66	15	00	4221	22	02	10	22	32			6	7
128	50	00	145	01	14	06	66	18	00	4221	22	02	10	22	22			6	8
129	49	59	145	02	14	06	66	21	00	4221	21	01	16	23	23			6	6
130	49	59	145	02	15	06	66	00	00	4221	19	02	23	44	33			6	8
131	49	56	145	08	15	06	66	03	00	4221	18	02	15	33	44			6	8
132	49	54	145	13	15	06	66	06	00	4221	17	02	17	33	44			7	8
133	49	59	145	03	15	06	66	09	00	4221	17	02	20	34	XX			7	8
134	49	55	145	06	15	06	66	12	00	4221	17	02	16	34	XX			7	8
135	49	58	145	08	15	06	66	15	00	4221	15	02	19	34	44			7	8
136	50	00	145	02	15	06	66	18	00	4221	15	02	18	34	44			6	8
137	49	58	145	01	15	06	66	21	00	4221	14	02	18	34	44			6	8
138	49	54	144	59	16	06	66	00	00	4221	14	02	17	24	25			6	8
139	49	50	144	56	16	06	66	03	00	4221	12	02	12	22	24			6	7
140	49	48	144	56	16	06	66	06	00	4221	11	02	06	21	43			6	8
141	50	00	144	59	16	06	66	09	00	4221	09	02	11	22	XX			6	8
142	50	00	144	55	16	06	66	12	00	4221	07	02	02	20	XX			6	8
143	49	55	144	59	16	06	66	15	00	4221	05	61	10	21	32			6	8
144	50	02	145	03	16	06	66	18	00	4221	03	51	10	21	22			7	8
145	50	01	145	03	16	06	66	18	40	4221	04	65	10	22	33			X	9
146	50	03	145	05	16	06	66	21	00	4221	00	21	16	22	22			7	8
147	50	05	145	07	17	06	66	00	00	4221	00	28	21	33	33			7	8
148	50	04	144	58	17	06	66	03	00	4221	00	02	25	34	33			7	8
149	50	04	144	54	17	06	66	06	00	4221	02	02	18	34	33			6	6
150	50	01	144	57	17	06	66	09	00	4221	03	02	14	33	XX			6	3

TABLE I

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	W W Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
151	50	06	144	55	17	06	66	12	00	4221	04	25	14	33	XX			8	5
152	49	59	144	57	17	06	66	15	00	4221	05	15	11	33	43			8	6
153	49	59	144	54	17	06	66	18	00	4221	05	02	12	33	33			8	6
154	50	03	144	50	17	06	66	21	00	4221	06	02	14	33	33			2	7
155	50	06	144	45	18	06	66	00	00	4221	05	80	16	33	33			6	8
156	49	59	144	59	18	06	66	03	00	4221	03	15	19	33	33			6	7
157	50	01	144	57	18	06	66	06	00	4221	03	80	16	33	33			8	8
158	50	05	144	53	18	06	66	09	00	4221	03	02	13	33	XX			8	5
159	50	08	144	50	18	06	66	12	00	4221	02	61	10	33	XX			7	8
160	49	58	144	58	18	06	66	15	00	4221	03	25	10	22	55			6	7
161	49	57	144	56	18	06	66	18	00	4221	05	25	14	33	56			3	7
162	49	57	144	52	18	06	66	21	00	4221	06	25	21	34	45			6	7
163	49	59	144	58	19	06	66	00	00	4221	08	02	20	34	44			6	7
164	49	59	145	09	19	06	66	03	00	4221	08	61	13	33	44			7	8
165	50	01	145	00	19	06	66	06	00	4221	08	02	21	34	44			8	7
166	50	01	145	09	19	06	66	09	00	4221	08	61	20	44	XX			7	8
167	50	02	145	17	19	06	66	12	00	4221	08	01	11	32	XX			6	3
168	50	00	145	02	19	06	66	15	00	4221	09	02	07	22	44			3	3
169	50	00	145	00	19	06	66	18	00	4221	10	02	11	22	44			6	4
170	49	58	145	00	19	06	66	21	00	4221	11	02	13	32	44			3	6
171	49	59	145	01	20	06	66	00	00	4221	13	02	10	22	43			3	6
172	49	55	144	56	20	06	66	03	00	4221	13	02	11	22	44			6	8
173	49	54	144	54	20	06	66	06	00	4221	14	02	09	22	44			6	7
174	50	03	145	00	20	06	66	09	00	4221	14	02	05	22	44			6	8
175	50	02	145	00	20	06	66	12	00	4221	14	02	10	22	44			6	8

TABLE I

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	W W Code	WIND Aml	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
176	50	00	144	58	20	06	66	15	00	4221	14	02	09	22	44	6	6		
177	49	56	144	56	20	06	66	18	00	4221	14	02	04	20	43	3	7		
178	49	55	144	56	20	06	66	19	00	4221	16	02	03	20	44	3	5		
179	49	54	144	56	20	06	66	21	00	4221	14	02	03	20	43	6	7		
180	49	54	144	55	21	06	66	00	00	4221	14	02	04	20	43	8	3		
181	49	53	144	54	21	06	66	03	00	4221	13	02	03	20	43	8	3		
182	49	53	144	53	21	06	66	06	00	4221	13	02	04	21	32	8	2		
183	50	02	145	02	21	06	66	09	00	4221	13	02	02	21	32	8	3		
184	50	01	145	00	21	06	66	12	00	4221	13	02	02	21	XX	8	2		
185	50	02	145	05	21	06	66	15	00	4221	13	02	02	X0	21	8	3		
186	50	01	145	02	21	06	66	18	00	4221	14	02	02	X0	21	8	7		
187	50	01	145	01	21	06	66	18	30	4221	16	02	00	X0	X0	6	5		
188	50	03	145	02	21	06	66	21	00	4221	14	02	00	X0	21	0	6		
189	49	58	145	01	22	06	66	00	00	4221	14	02	02	X0	21	8	5		
190	49	59	145	00	22	06	66	03	00	4221	14	02	03	20	21	8	2		
191	49	59	144	59	22	06	66	06	00	4221	15	03	03	20	21	8	6		
192	49	58	144	58	22	06	66	09	00	4221	15	02	04	20	21	8	4		
193	50	01	144	57	22	06	66	12	00	4221	16	02	06	21	XX	8	6		
194	50	01	144	58	22	06	66	15	00	4221	16	02	08	22	XX	0	6		
195	50	01	144	57	22	06	66	18	00	4221	17	15	07	21	22	4	7		
196	50	02	144	58	22	06	66	21	00	4221	17	02	08	21	22	6	7		
197	50	04	144	57	23	06	66	00	00	4221	18	02	08	21	32	8	2		
198	50	07	144	53	23	06	66	03	00	4221	17	02	09	21	32	8	2		
199	50	07	144	56	23	06	66	06	00	4221	17	02	10	21	32	6	5		
200	50	01	144	59	23	06	66	09	00	4221	17	02	16	22	32	8	8		

TABLE I

CON No	LAT		LONG		DATE			GMT		DEPTH fms Chart	BAR Mbs	W W Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
201	50	03	144	56	23	06	66	12	00	4221	16	51	13	XX	XX			6	8
202	50	06	145	01	23	06	66	15	00	4221	15	10	13	22	22			7	8
203	50	00	145	00	23	06	66	18	00	4221	14	51	16	23	22			7	8
204	50	03	144	58	23	06	66	21	00	4221	14	02	14	23	22			6	8
205	50	05	144	57	24	06	66	00	00	4221	14	02	15	23	22			7	8
206	50	07	144	58	24	06	66	03	00	4221	12	02	15	33	33			7	8
207	50	09	144	59	24	06	66	06	00	4221	09	02	14	33	33			6	8
208	50	03	144	59	24	06	66	09	00	4221	06	51	21	33	33			7	8
209	50	11	144	52	24	06	66	12	00	4221	07	02	21	33	33			6	4
210	50	00	145	00	24	06	66	15	00	4221	07	02	21	44	33			6	5
211	49	59	144	55	24	06	66	18	00	4221	09	25	18	34	33			8	7
212	49	58	144	53	24	06	66	21	00	4221	09	02	20	34	35			6	7
213	50	03	144	48	25	06	66	00	00	4221	08	02	23	34	35			8	7
214	50	06	144	45	25	06	66	03	00	4221	07	02	21	34	35			6	7
215	50	07	144	39	25	06	66	06	00	4221	06	02	18	34	35			6	7
216	50	01	144	53	25	06	66	09	00	4221	07	02	26	35	34			6	8
217	49	57	145	04	25	06	66	12	00	4221	07	02	18	35	34			6	8
218	50	01	145	00	25	06	66	15	00	4221	07	15	18	23	25			6	7
219	50	03	144	53	25	06	66	18	00	4221	07	25	17	23	35			9	7
220	50	03	144	46	25	06	66	21	00	4221	07	80	21	34	46			9	7
221	50	04	144	43	26	06	66	00	00	4221	07	25	26	35	46			9	7
222	49	59	144	53	26	06	66	03	00	4221	05	80	22	46	XX			8	8
223	49	59	145	00	26	06	66	06	00	4221	03	15	28	35	24			8	7
224	50	02	145	06	26	06	66	09	00	4221	02	02	26	34	23			8	7
225	50	01	145	11	26	06	66	12	00	4221	01	25	24	35	34			8	8

TABLE I

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	W W Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
226	49	55	145	12	26	06	66	15	00	4221	00	25	21	35	34	9	7		
227	49	53	145	07	26	06	66	18	00	4221	01	15	18	34	35	8	6		
228	49	50	145	05	26	06	66	21	00	4221	03	02	16	23	34	8	7		
229	49	50	145	03	27	06	66	00	00	4221	03	15	16	23	34	9	7		
230	49	59	145	00	27	06	66	03	00	4221	03	15	22	24	34	9	7		
231	49	59	144	55	27	06	66	06	00	4221	04	25	21	24	33	9	7		
232	49	54	144	50	27	06	66	09	00	4221	05	02	25	34	XX	6	8		
233	49	52	144	46	27	06	66	12	00	4221	06	02	23	34	XX	8	6		
234	49	59	145	02	27	06	66	15	00	4221	07	15	27	25	XX	6	6		
235	49	57	145	00	27	06	66	18	00	4221	08	61	26	25	35	5	8		
236	49	56	144	57	27	06	66	18	30	4221	10	60	26	33	44	7	8		
237	49	55	144	53	27	06	66	21	00	4221	09	15	19	34	35	8	7		
238	49	48	144	51	28	06	66	00	00	4221	10	15	16	34	35	8	8		
239	49	58	145	01	28	06	66	03	00	4221	10	02	18	34	34	6	8		
240	49	56	145	01	28	06	66	06	00	4221	10	02	17	24	34	6	8		
241	49	56	144	55	28	06	66	09	00	4221	11	02	16	24	34	6	8		
242	49	57	144	52	28	06	66	12	00	4221	11	02	15	34	34	6	8		
243	50	00	145	00	28	06	66	15	00	4221	11	02	20	34	33	8	8		
244	50	00	144	59	28	06	66	18	00	4221	11	15	14	23	33	8	8		
245	49	56	144	54	28	06	66	21	00	4221	12	15	14	23	33	8	8		
246	49	57	144	52	29	06	66	00	00	4221	13	02	17	23	33	8	6		
247	49	59	144	55	29	06	66	03	00	4221	14	15	15	33	33	8	7		
248	49	58	144	48	29	06	66	06	00	4221	14	02	13	33	33	8	8		
249	50	01	145	00	29	06	66	09	00	4221	15	02	16	33	33	8	8		
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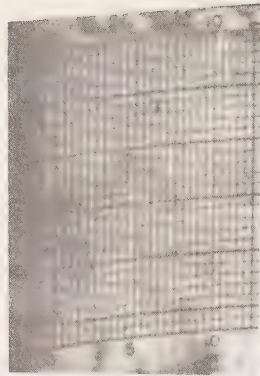
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	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
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252	50	01	144	58	29	06	66	18	00	4221	16	02	08	22	33	8	7		
253	50	01	144	55	29	06	66	18	30	4221	17	02	08	22	33	6	6		
254	49	59	144	53	29	06	66	21	00	4221	17	02	08	33	32	6	7		
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264	50	00	143	54	03	07	66	18	00	4115	31	50	XX	XX	65	8	8		
265	49	49	142	40	04	07	66	06	48	3910	31	02	XX	XX	43	6	7		
266	49	46	141	40	04	07	66	17	16	3970	31	02	10	21	33	6	8		
267	49	41	140	40	04	07	66	20	24	3881	31	02	05	22	33	6	7		
268	49	39	139	40	05	07	66	00	08	3840	32	02	03	22	33	7	8		
269	49	34	138	40	05	07	66	03	00	3890	32	02	05	21	22	6	7		
270	49	30	137	40	05	07	66	06	30	3850	32	02	05	21	22	6	7		
271	49	26	136	40	05	07	66	09	30	3775	31	02	22	22	22	7	7		
272	49	21	135	40	05	07	66	14	12	3200	30	02	15	22	22	6	8		
273	49	17	134	40	05	07	66	17	13	3550	32	02	15	23	42	6	8		
274	49	15	133	40	05	07	66	20	20	3200	28	02	18	22	22	6	8		
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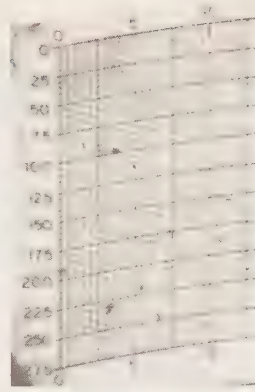
CON No	LAT		LONG		DATE			GMT		DEPTH fms Chart	BAR Mbs	W W Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
276	49	06	131	40	06	07	66	02	50	2875	24	02	25	23	45	4	4		
277	49	02	130	40	06	07	66	05	42	2930	21	02	20	33	35	7	8		
278	48	54	129	40	06	07	66	10	00	2601	18	01	20	33	34	0	0		
279	48	51	128	40	06	07	66	12	48	2529	15	02	25	33	35	4	2		
280	48	46	127	40	06	07	66	16	18	2500	14	03	02	22	33	4	6		
281	48	42	126	40	06	07	66	20	45	1300	16	02	05	21	22	7	6		
282	48	38	126	00	06	07	66	23	32	0000	16	02	06	X0	21	2	2		
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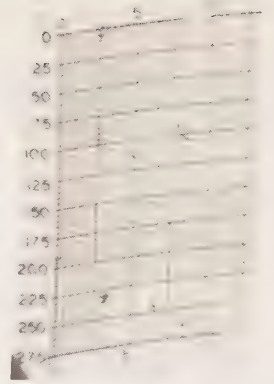
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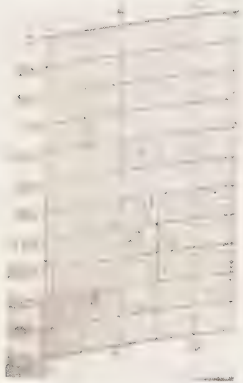
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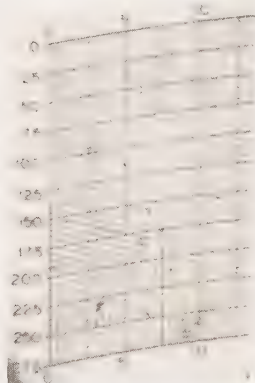
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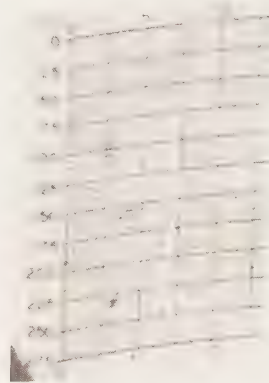
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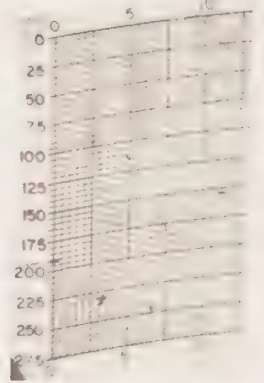
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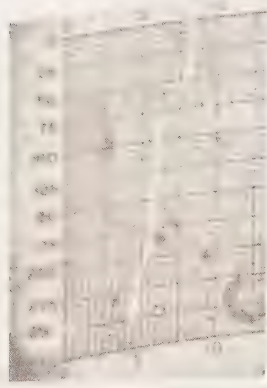
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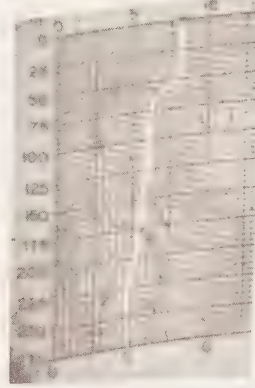
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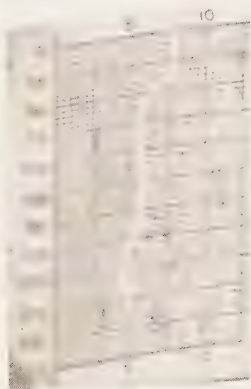
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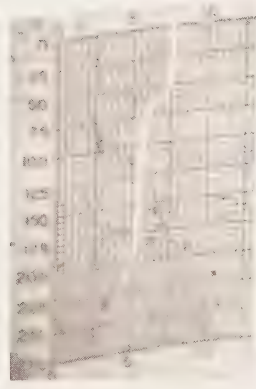
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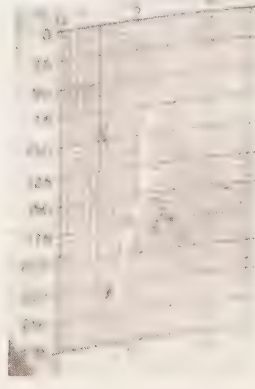
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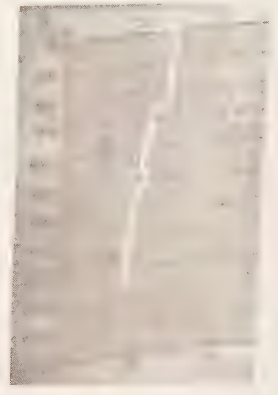
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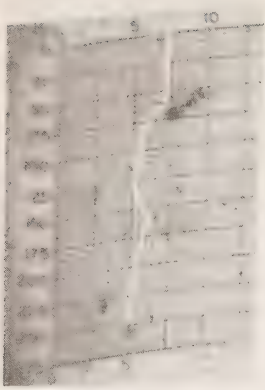
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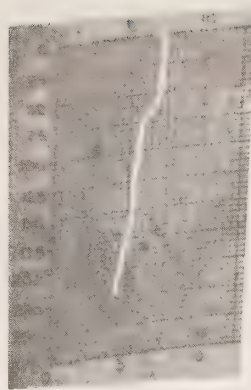
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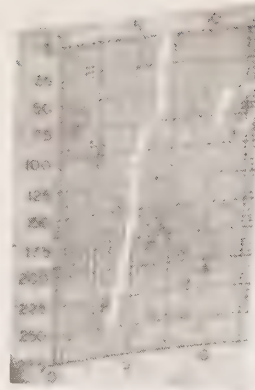
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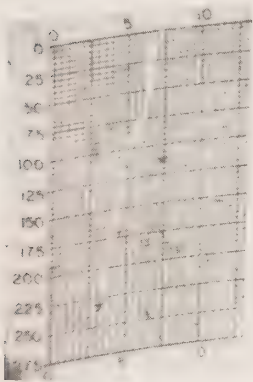
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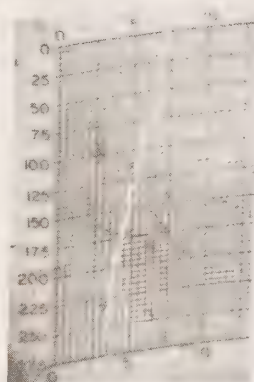
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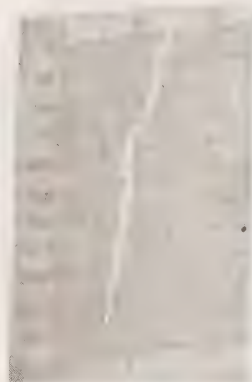
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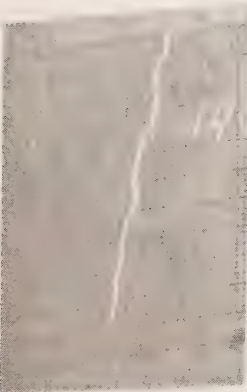
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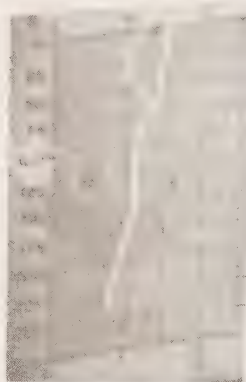
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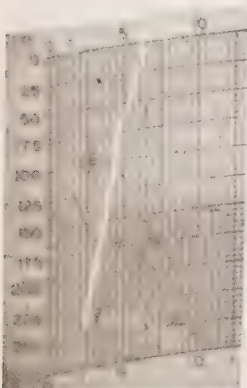
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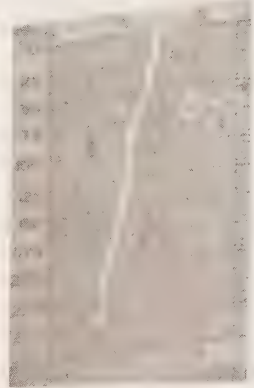
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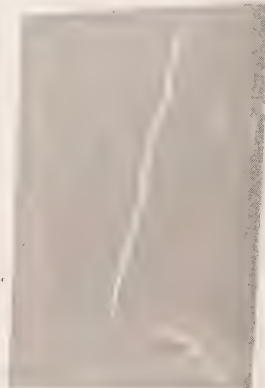
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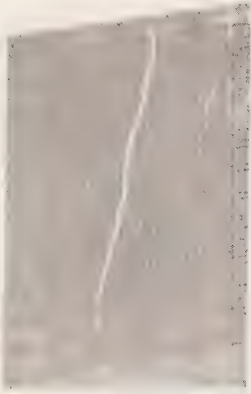
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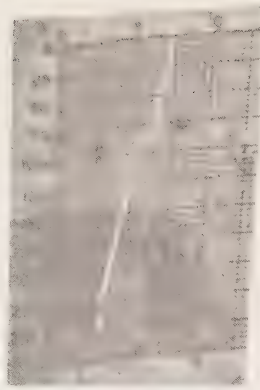
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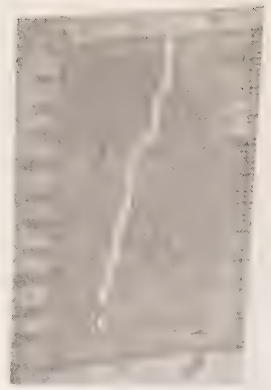
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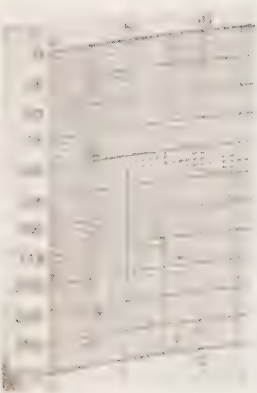
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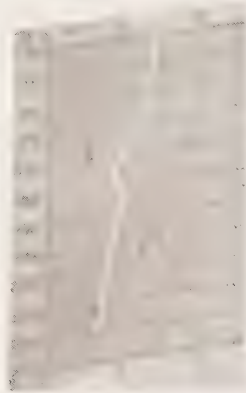
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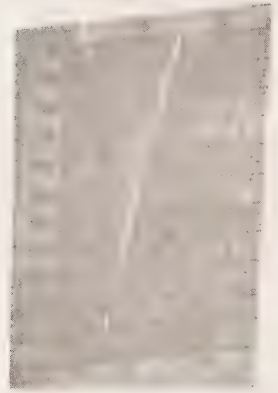
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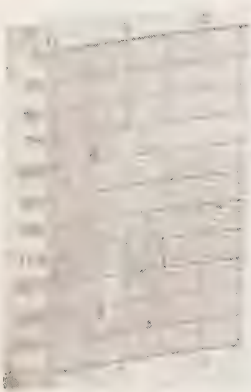
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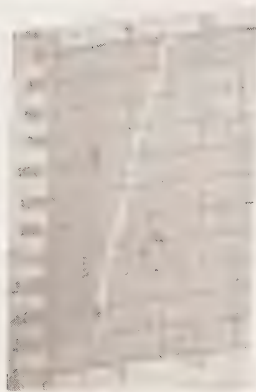
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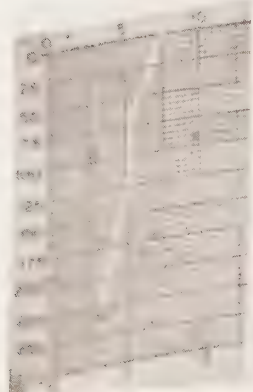
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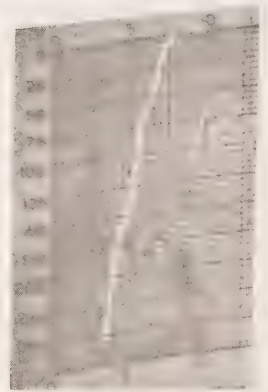
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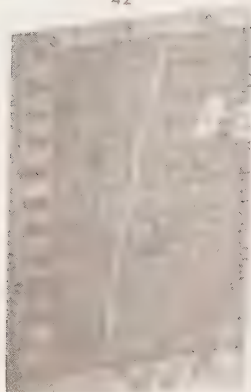
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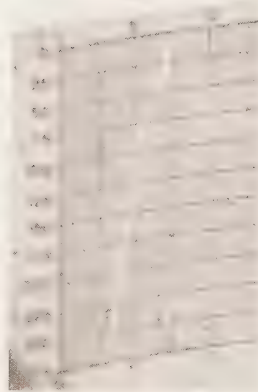
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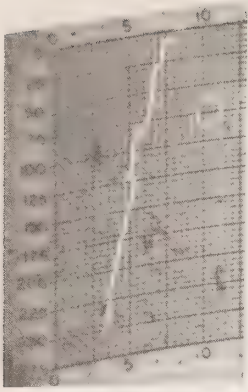
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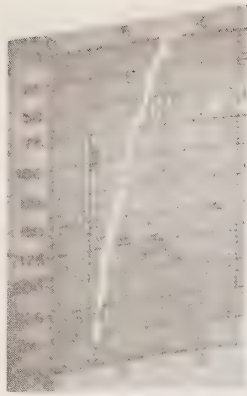
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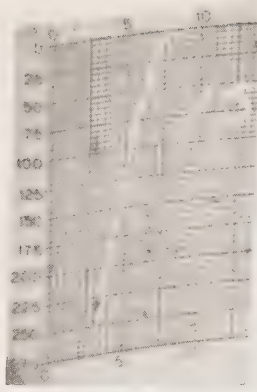
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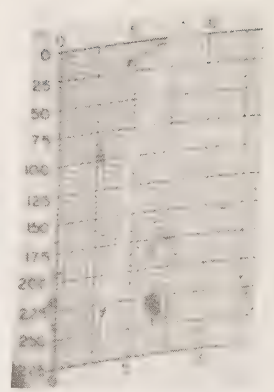
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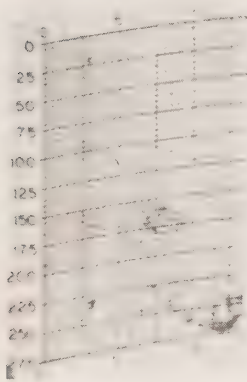
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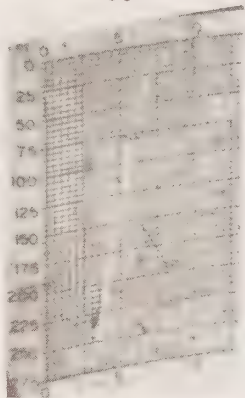
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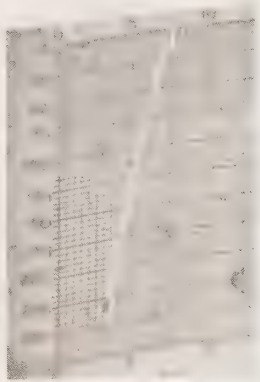
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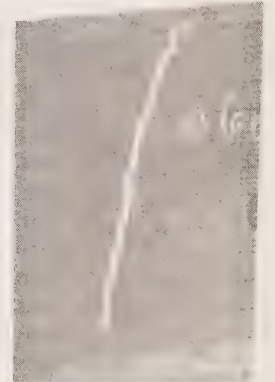
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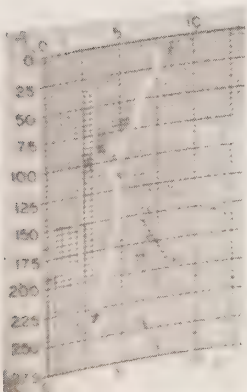
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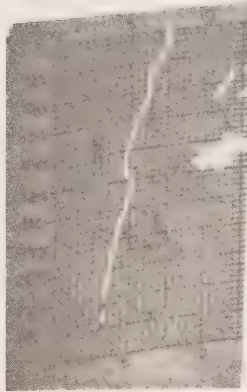
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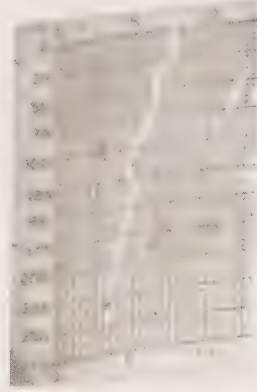
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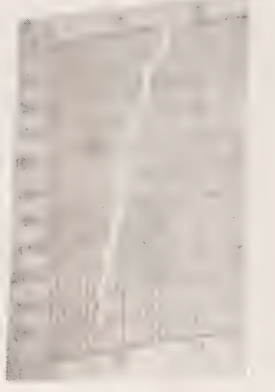
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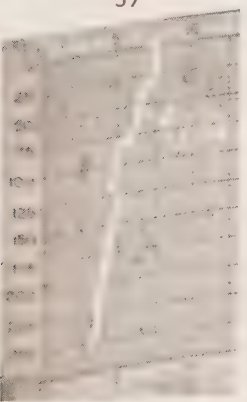
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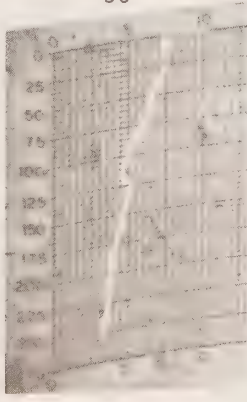
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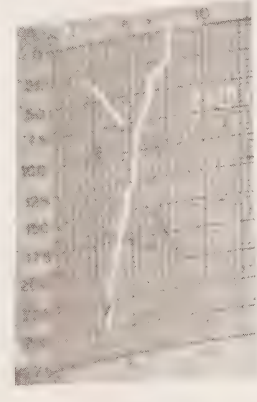
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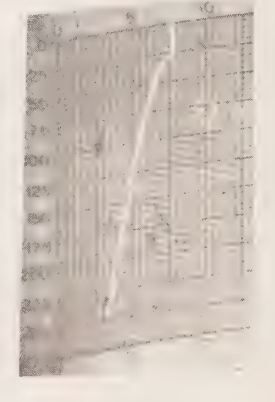
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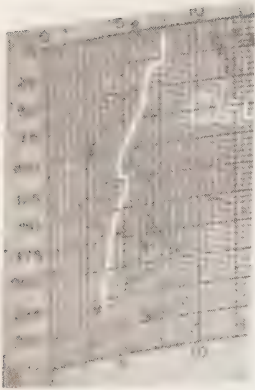
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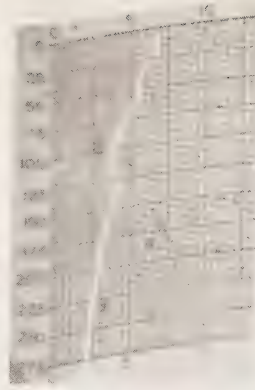
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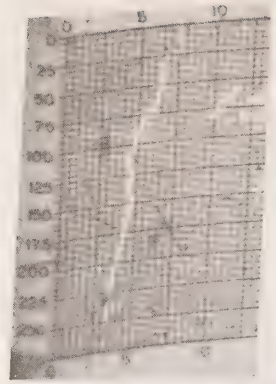
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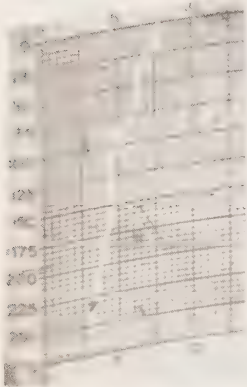
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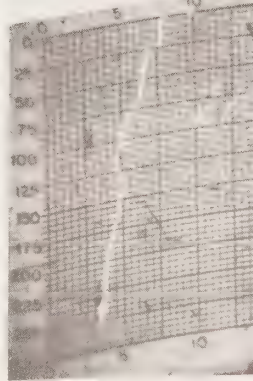
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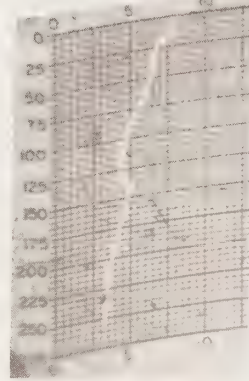
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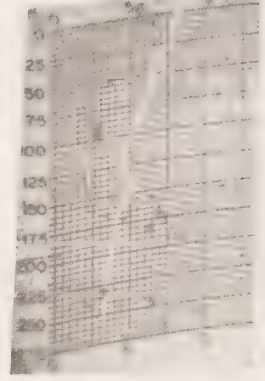
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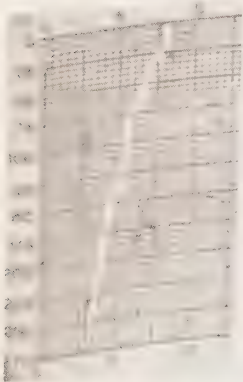
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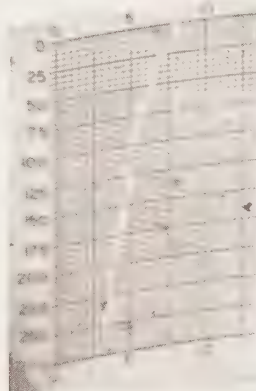
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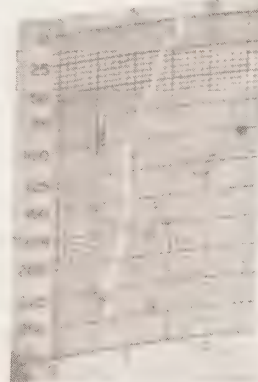
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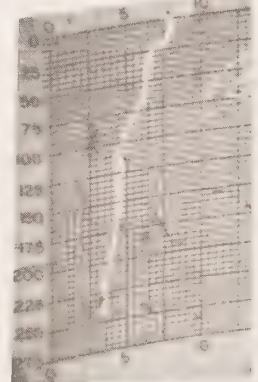
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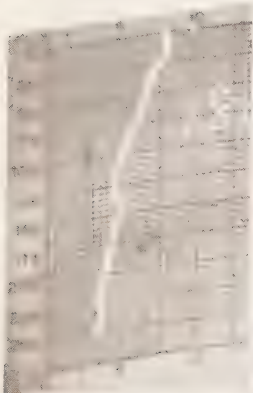
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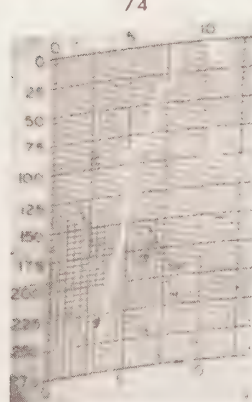
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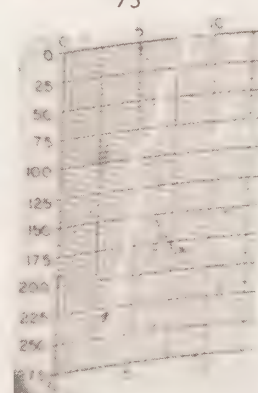
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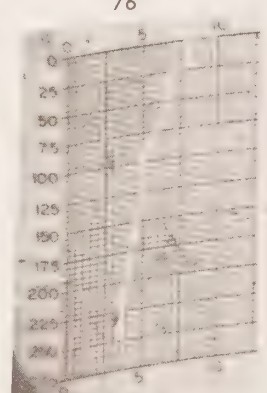
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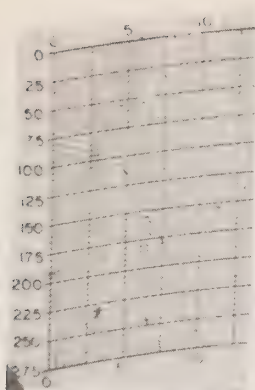
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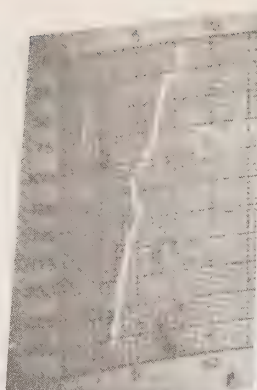
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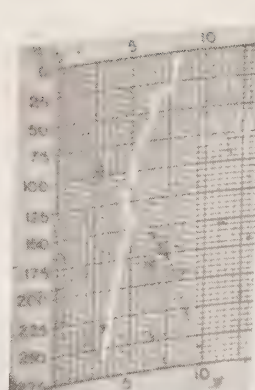
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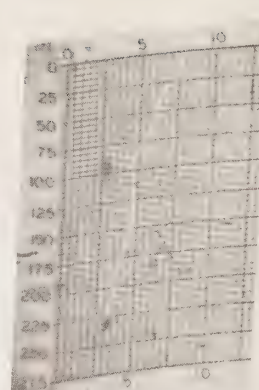
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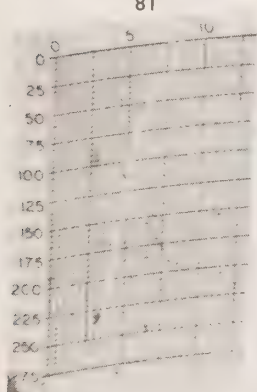
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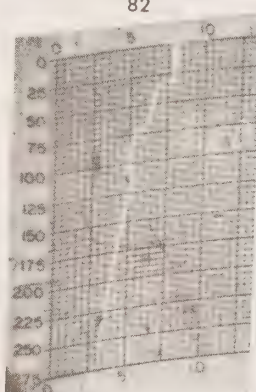
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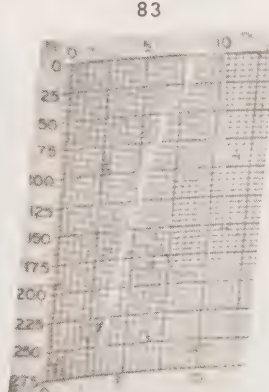
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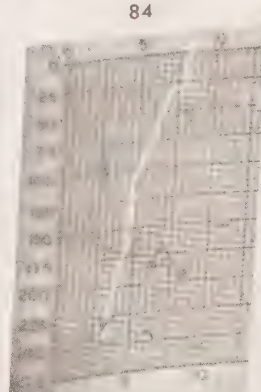
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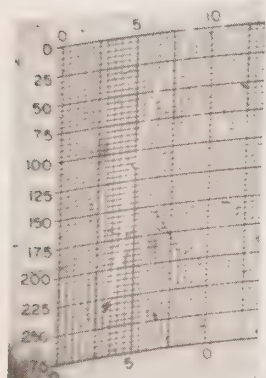
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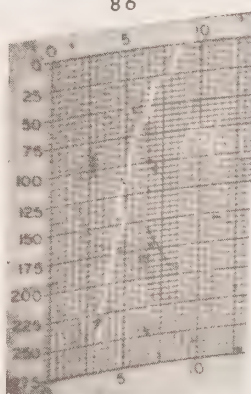
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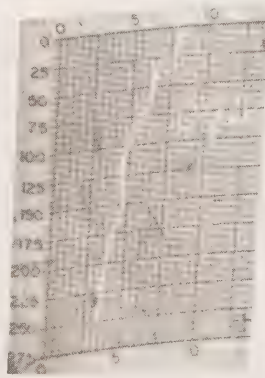
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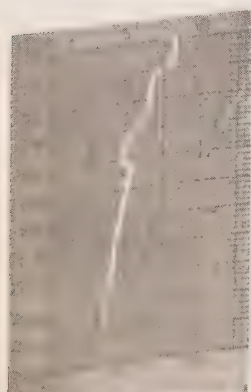
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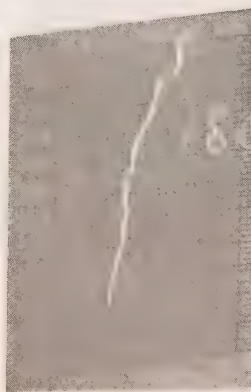
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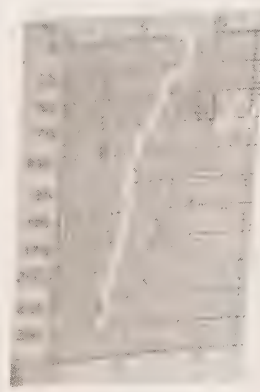
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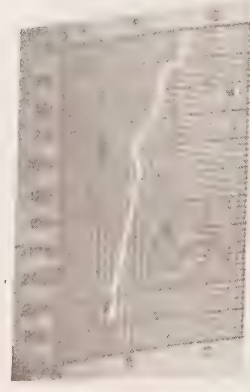
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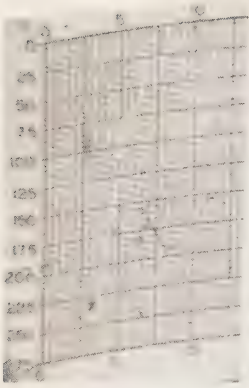
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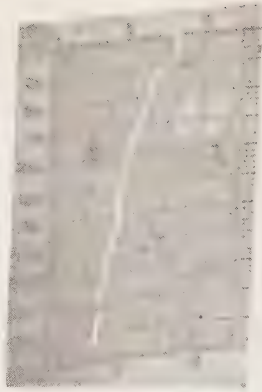
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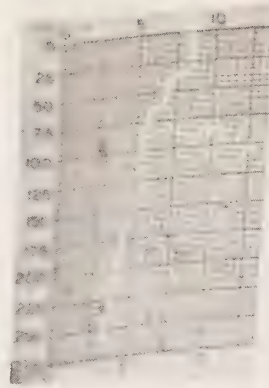
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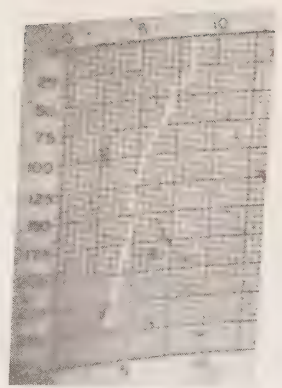
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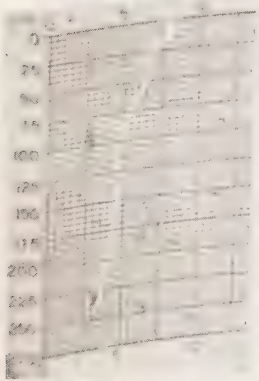
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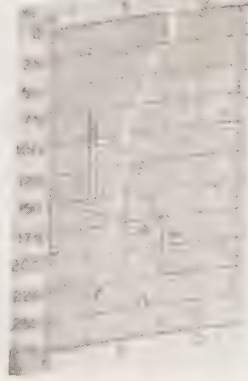
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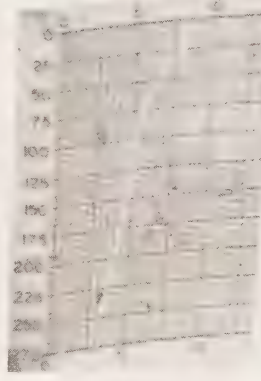
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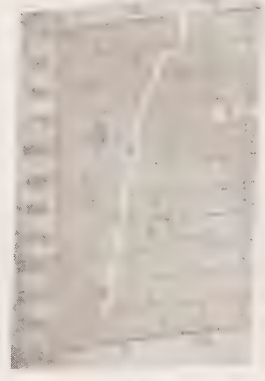
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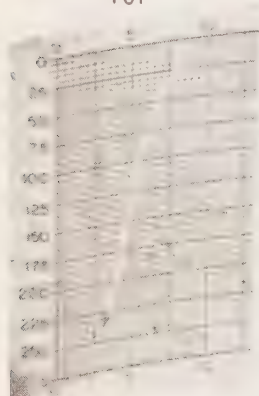
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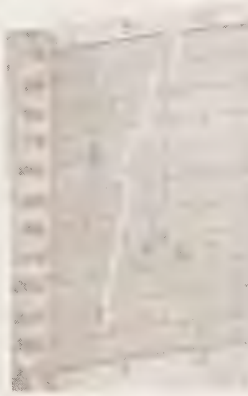
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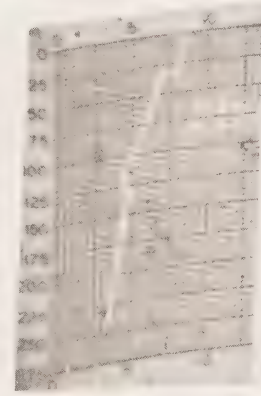
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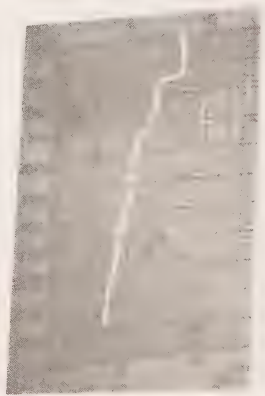
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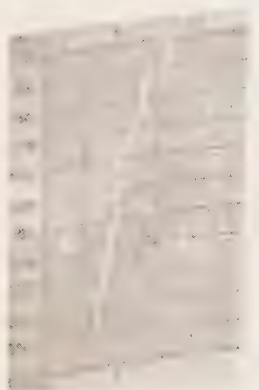
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107



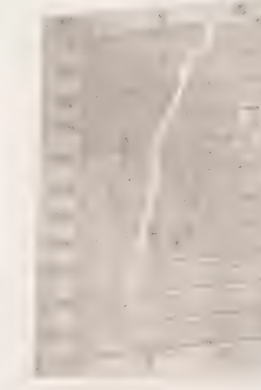
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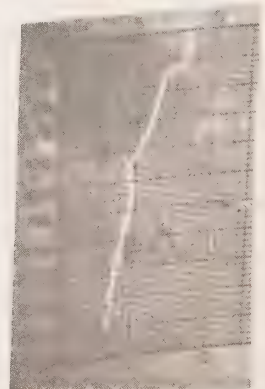
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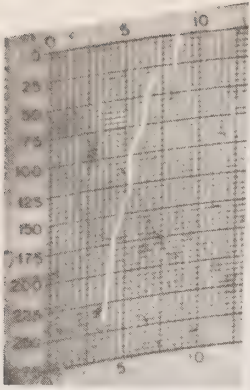
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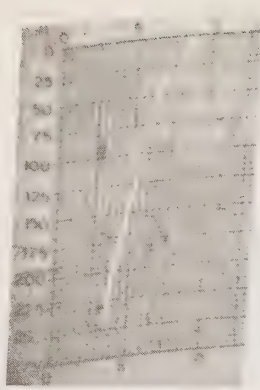
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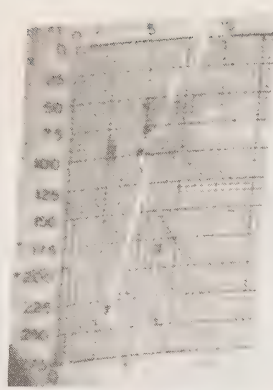
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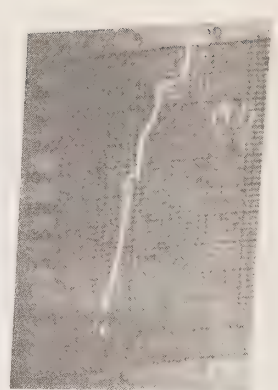
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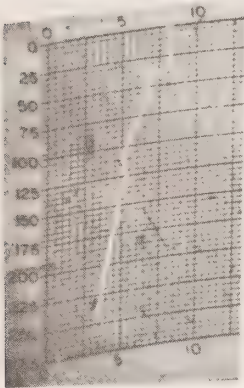
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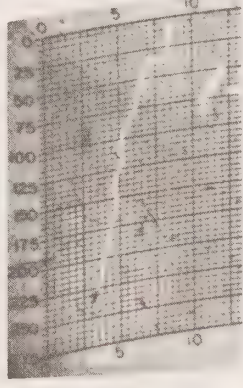
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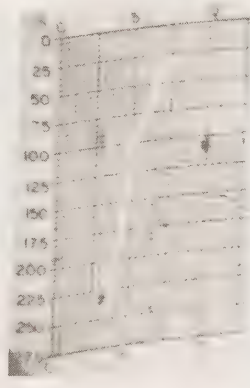
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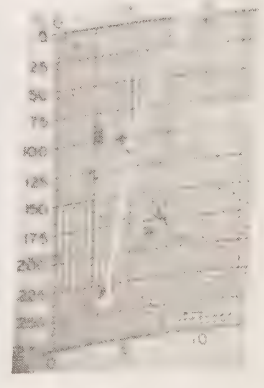
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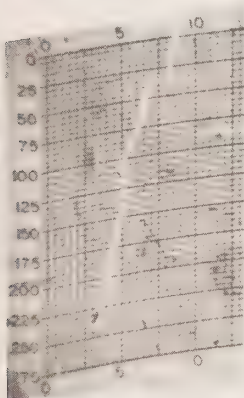
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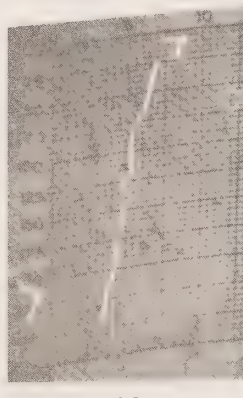
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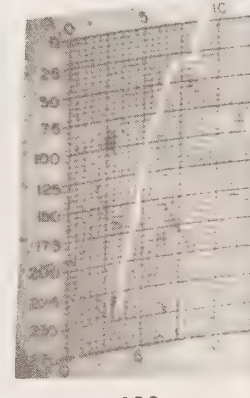
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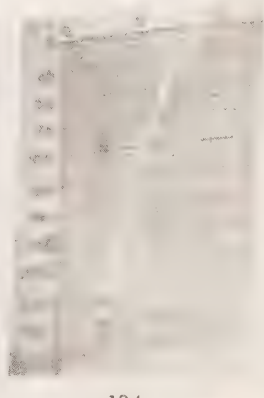
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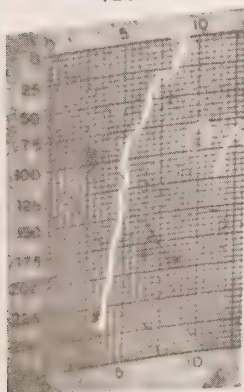
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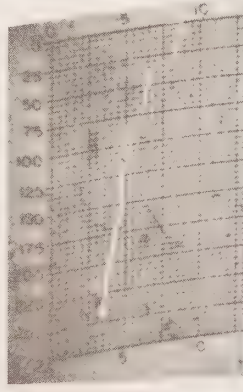
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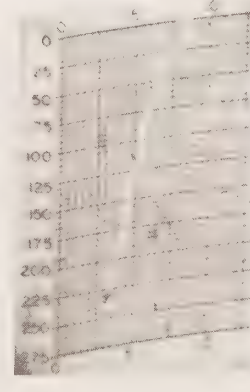
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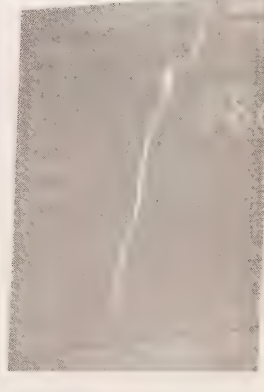
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126



127



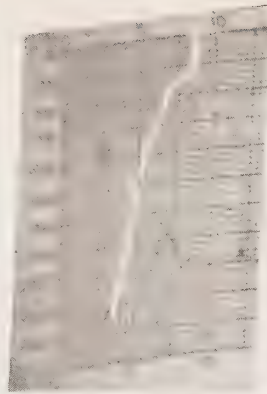
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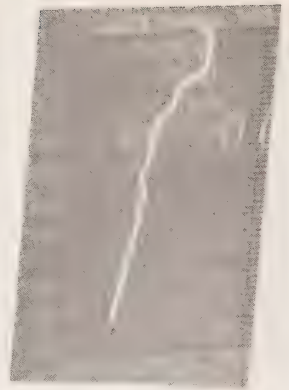
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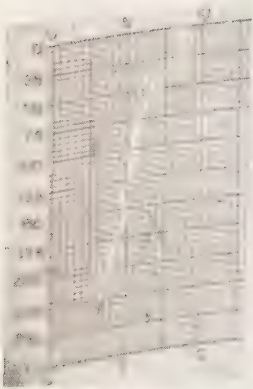
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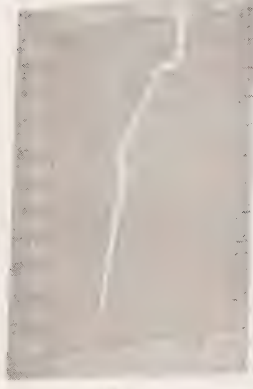
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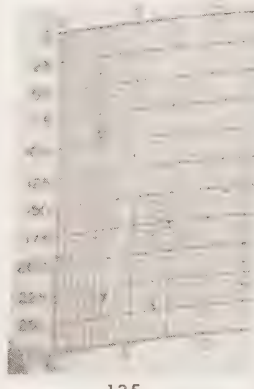
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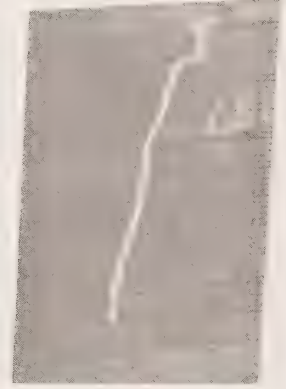
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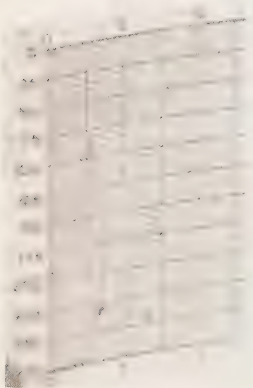
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135



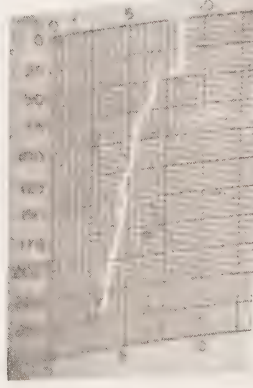
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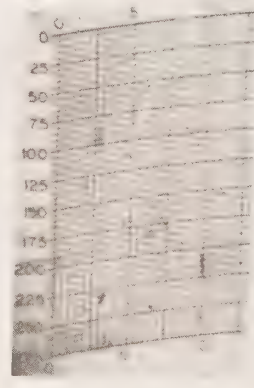
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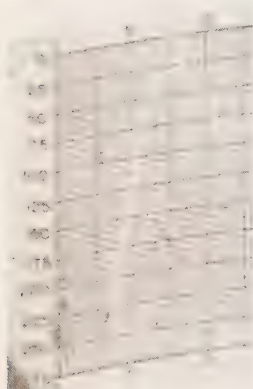
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139



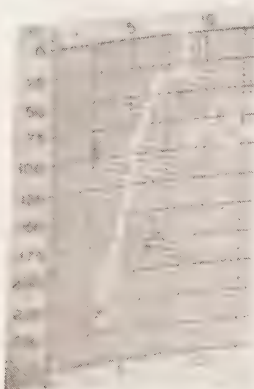
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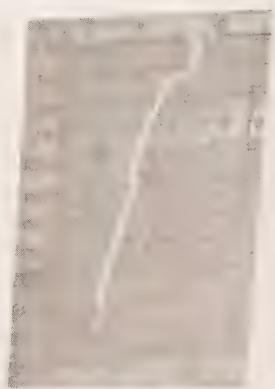
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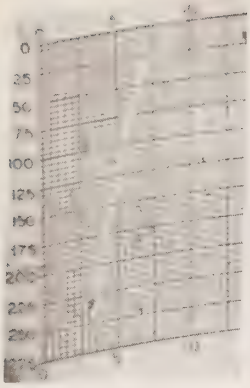
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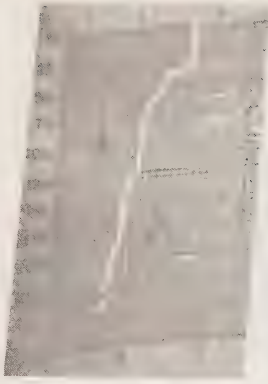
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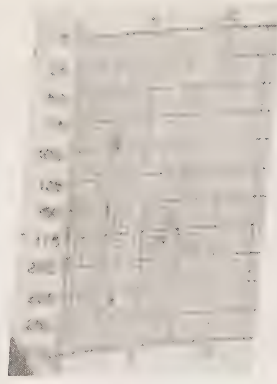
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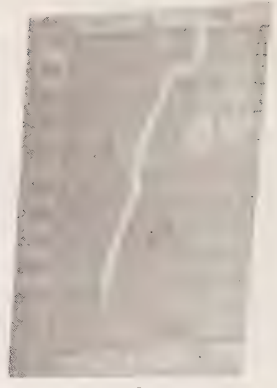
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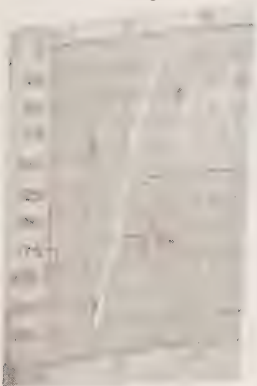
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147



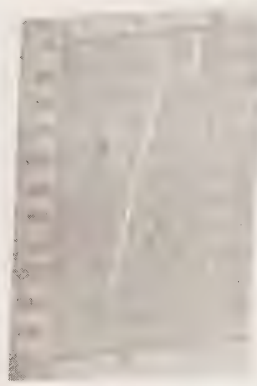
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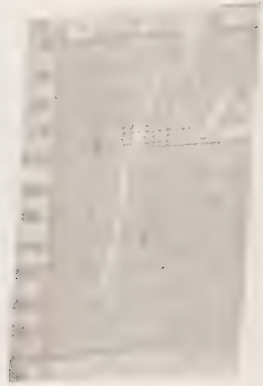
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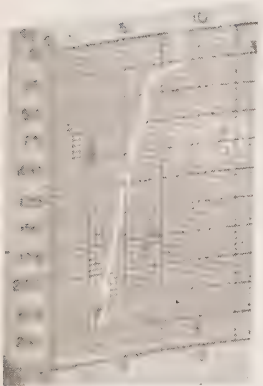
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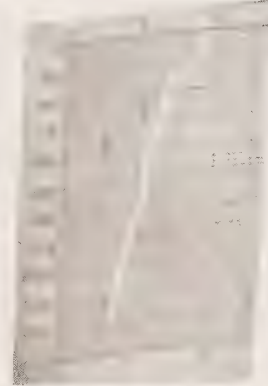
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153



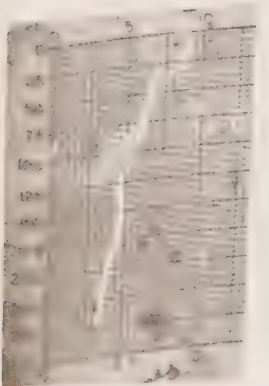
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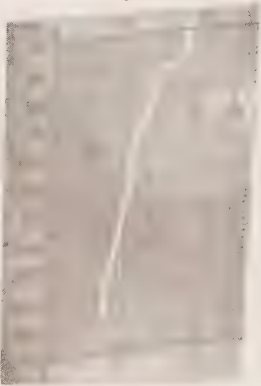
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157



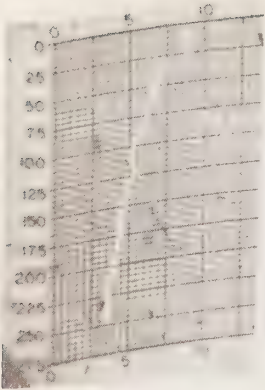
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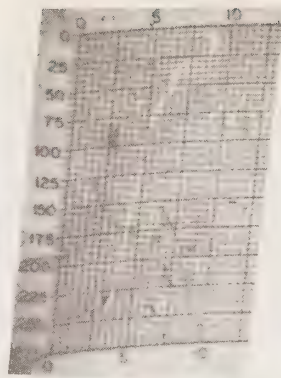
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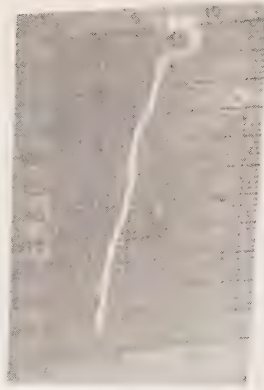
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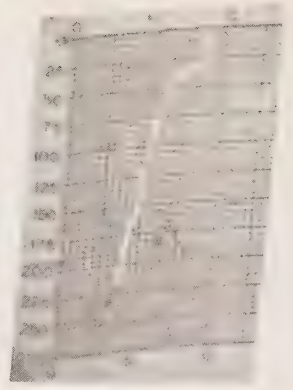
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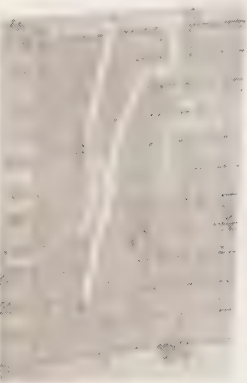
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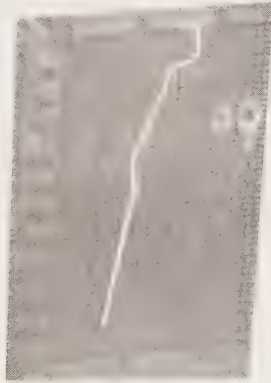
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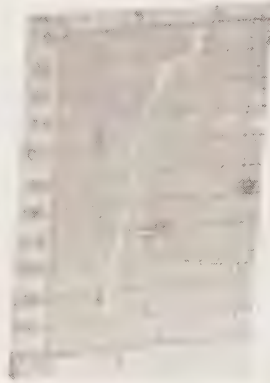
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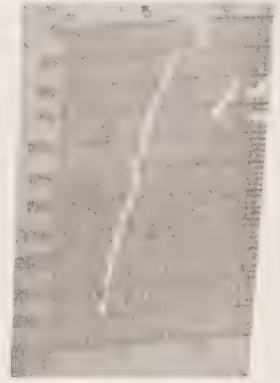
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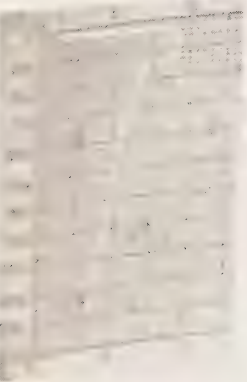
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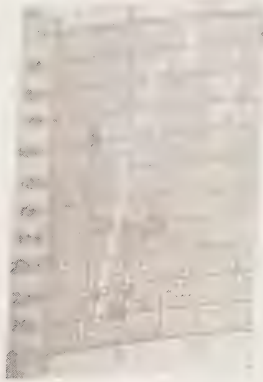
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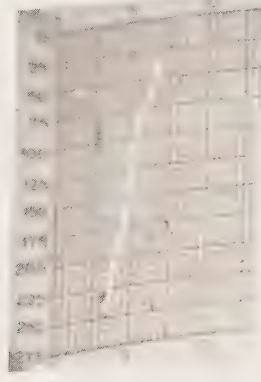
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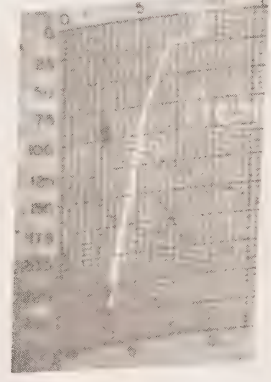
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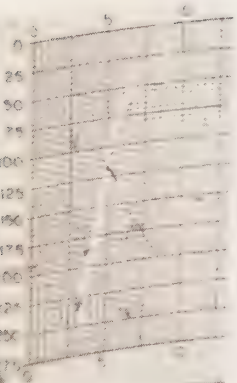
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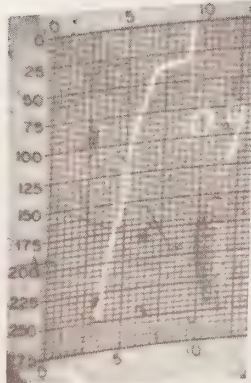
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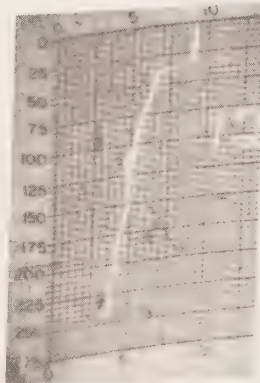
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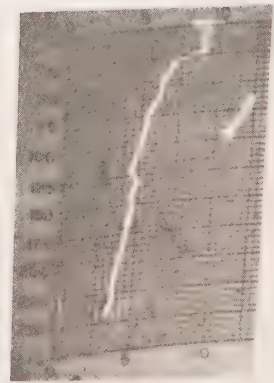
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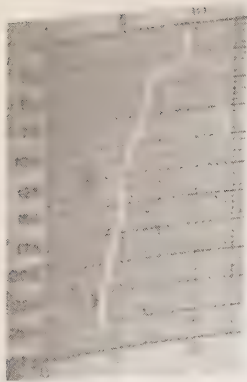
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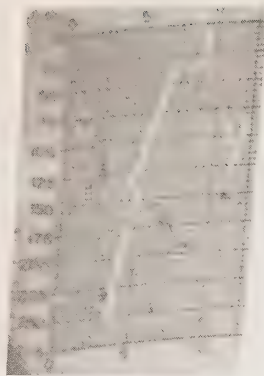
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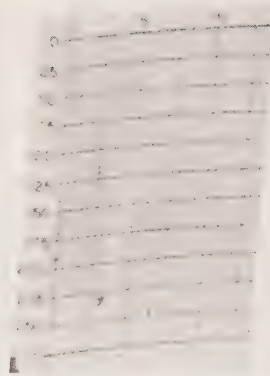
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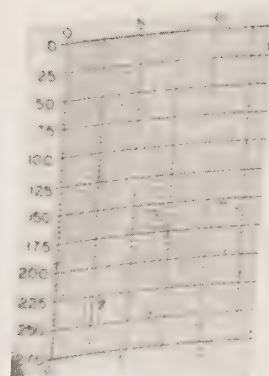
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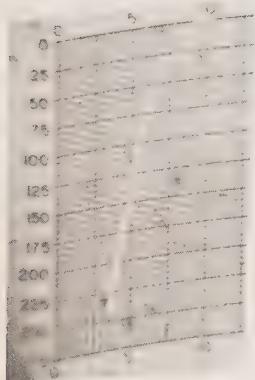
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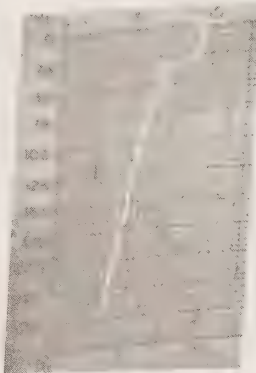
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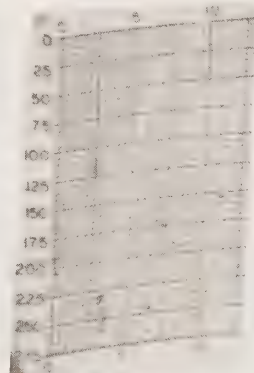
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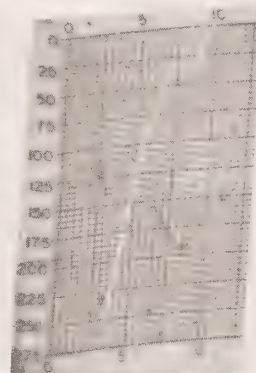
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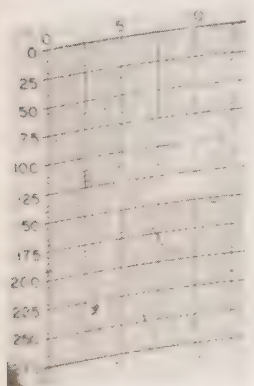
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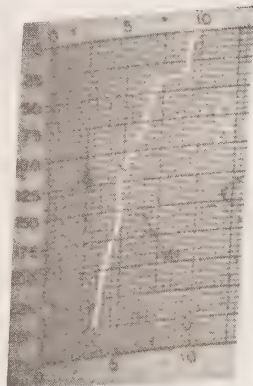
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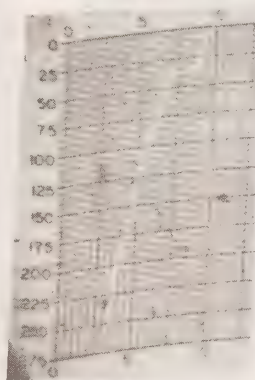
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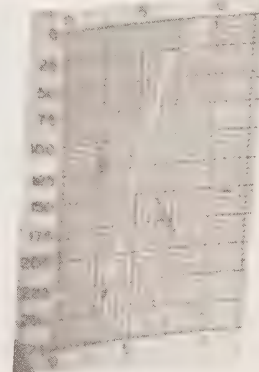
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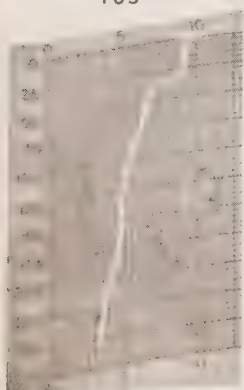
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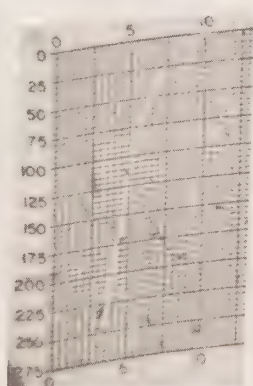
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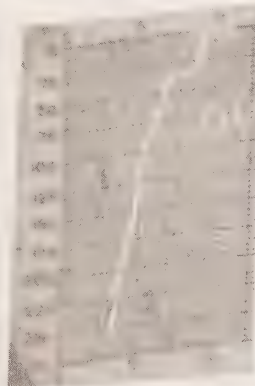
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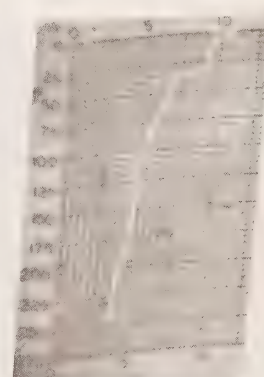
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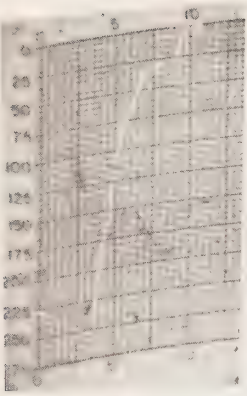
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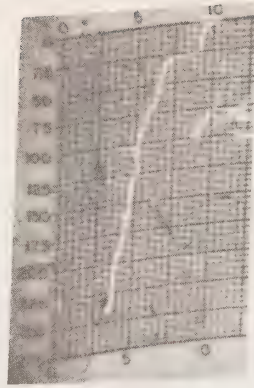
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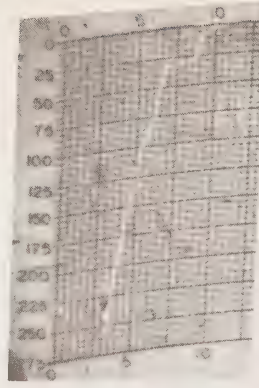
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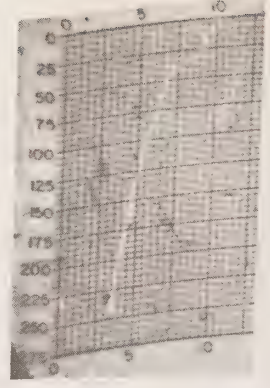
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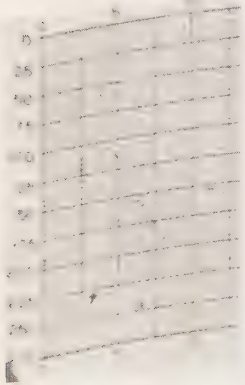
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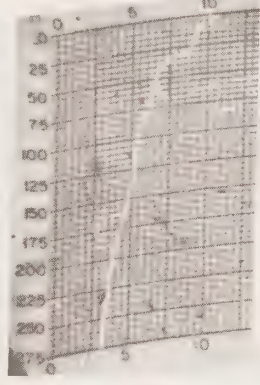
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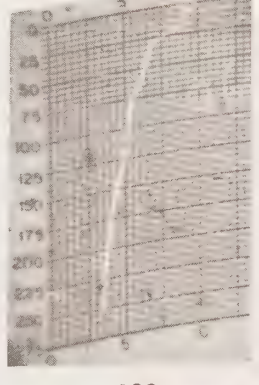
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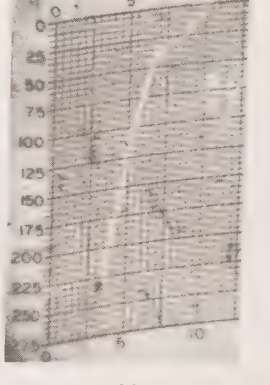
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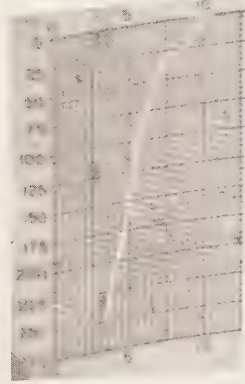
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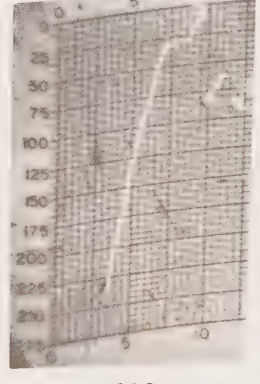
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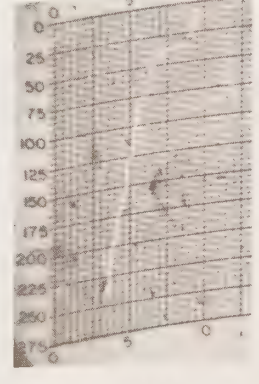
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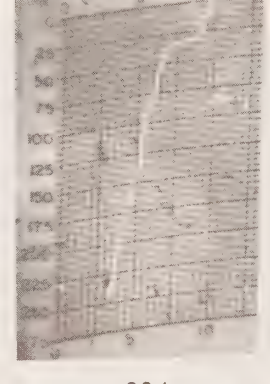
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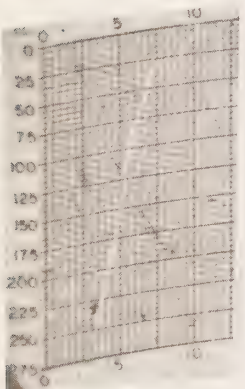
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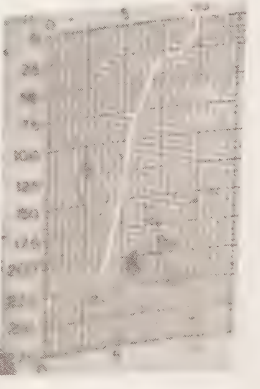
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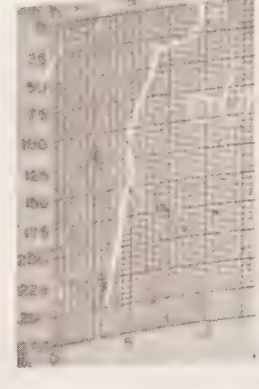
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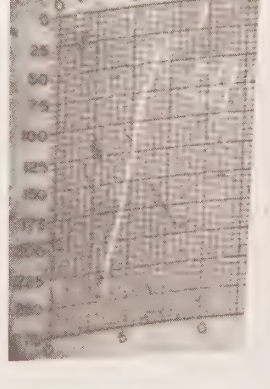
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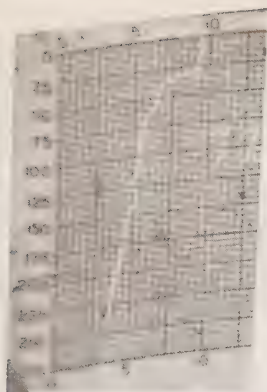
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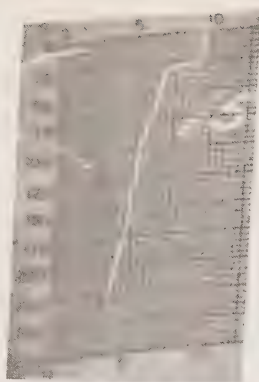
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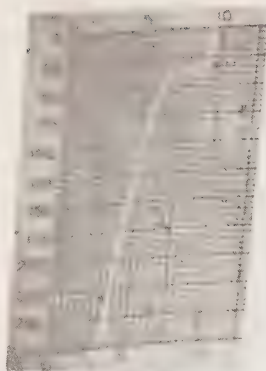
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209



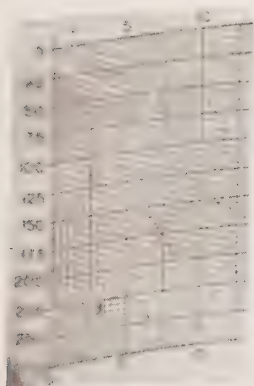
210



211



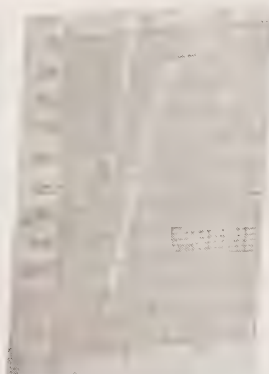
212



213



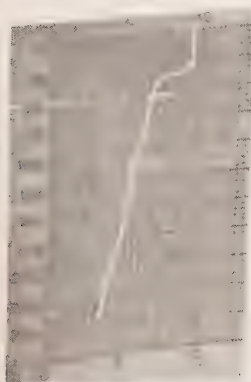
214



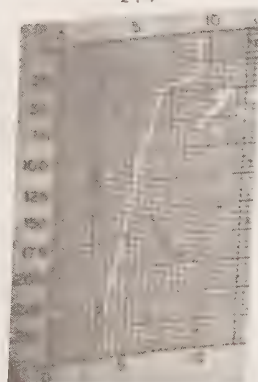
215



216



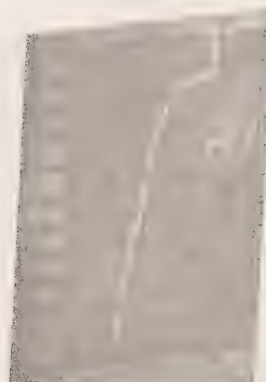
217



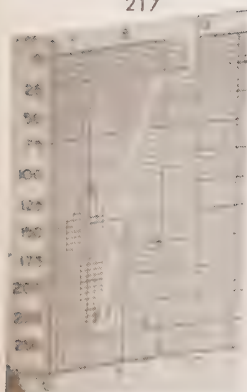
218



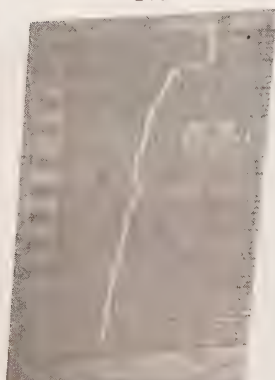
219



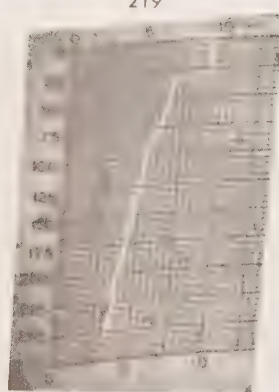
220



221



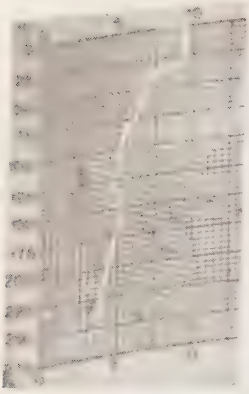
222



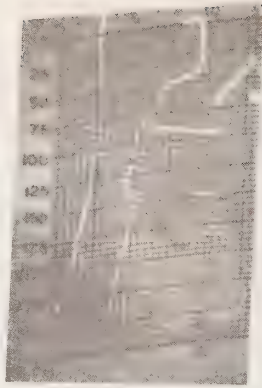
223



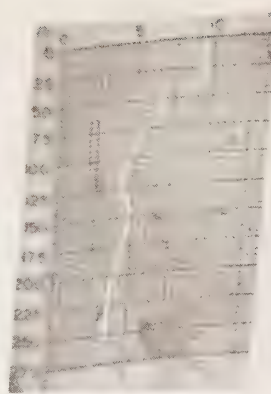
224



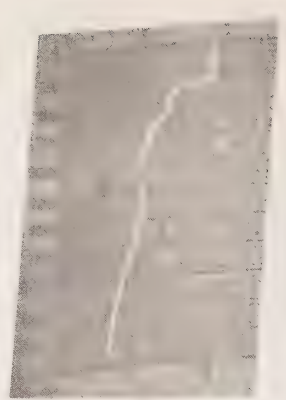
225



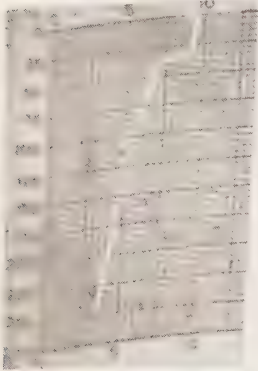
226



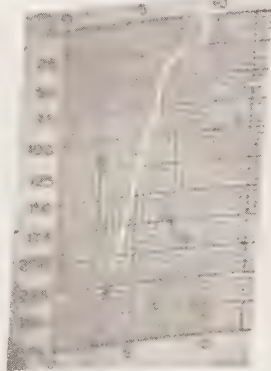
227



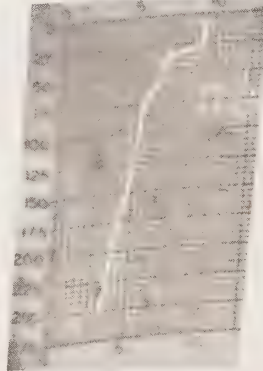
228



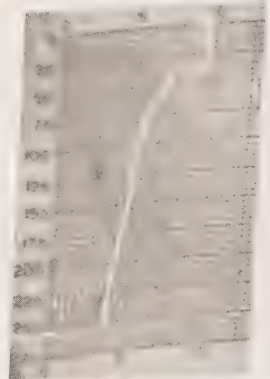
229



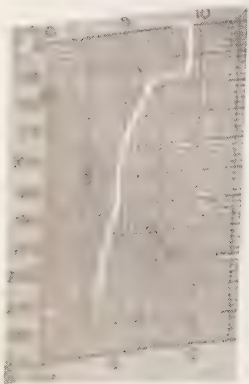
230



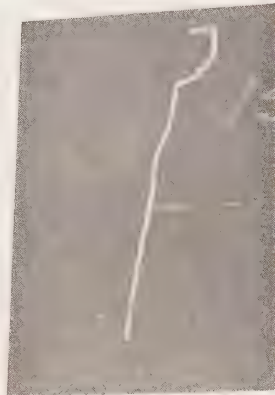
231



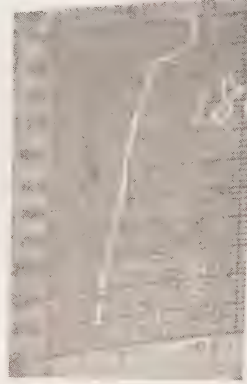
232



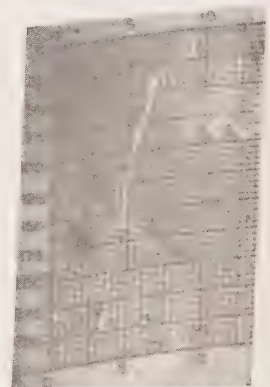
233



234



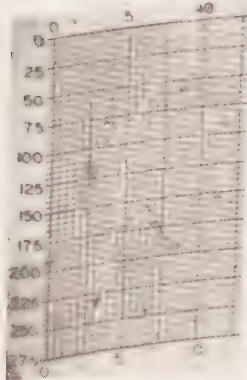
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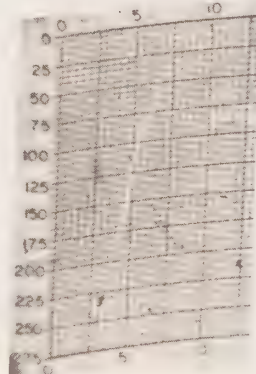
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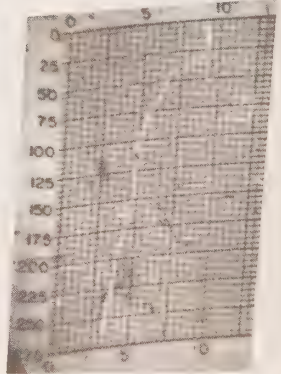
237



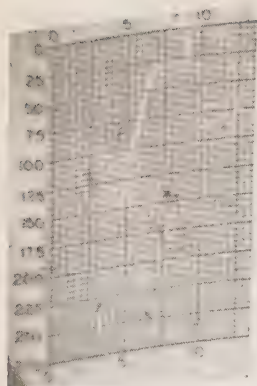
238



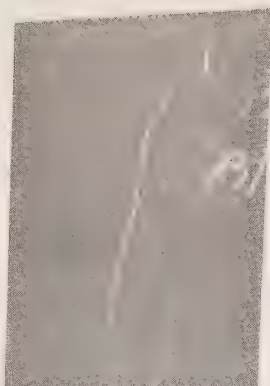
239



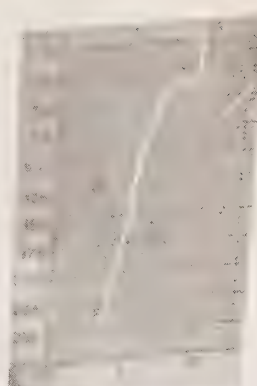
240



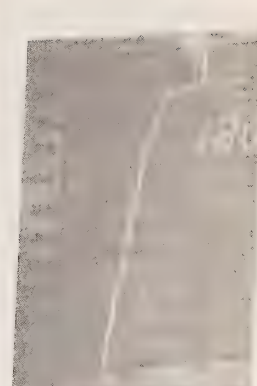
241



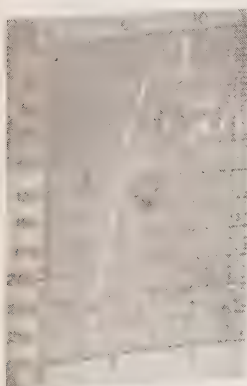
242



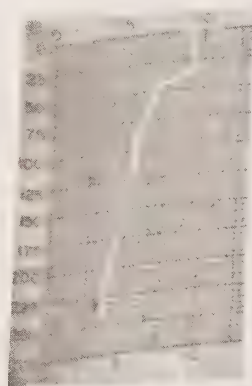
243



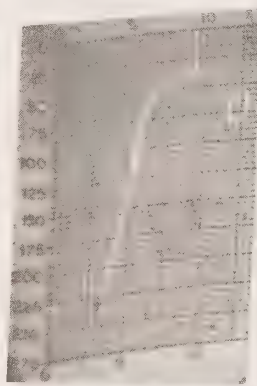
244



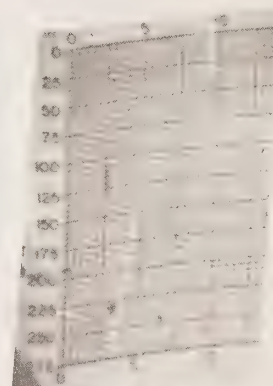
245



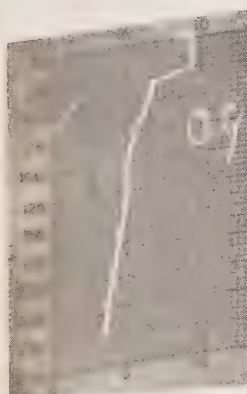
246



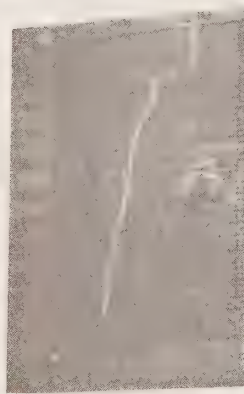
247



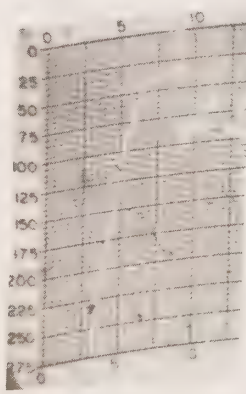
248



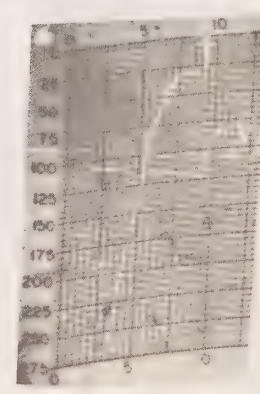
249



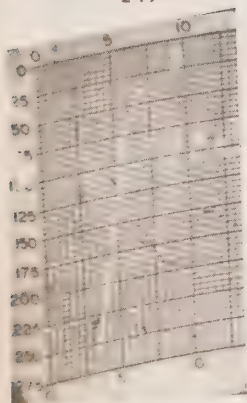
250



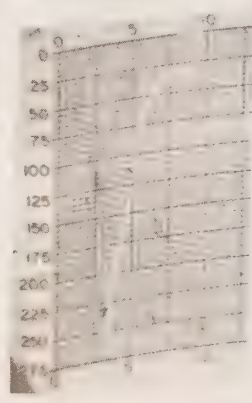
251



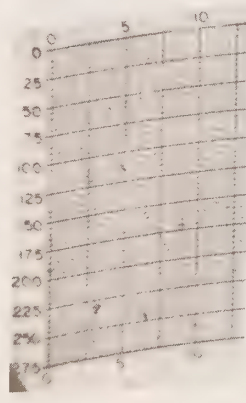
252



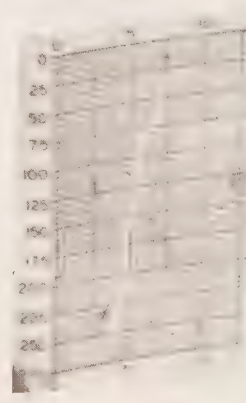
253



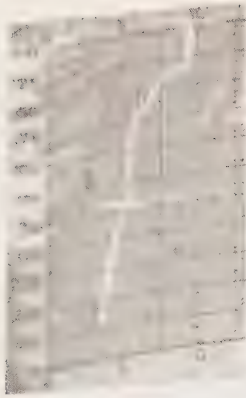
254



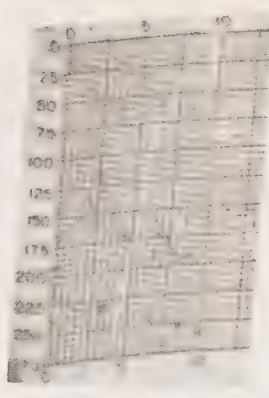
255



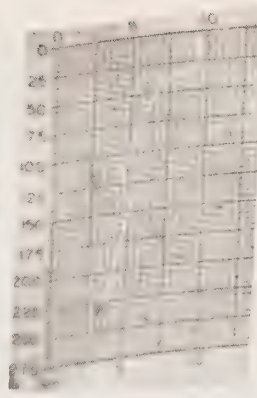
256



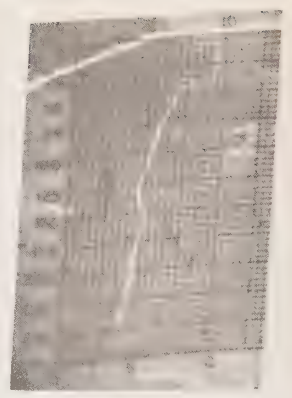
257



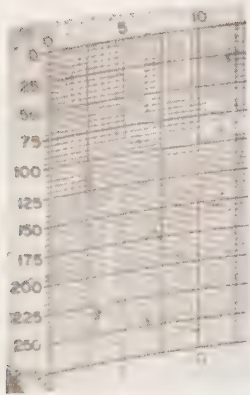
258



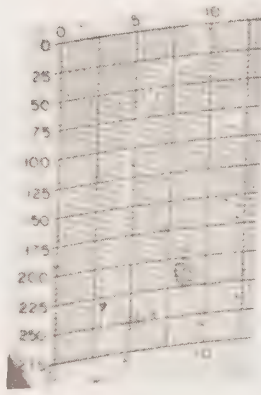
259



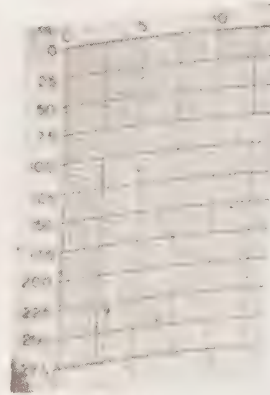
260



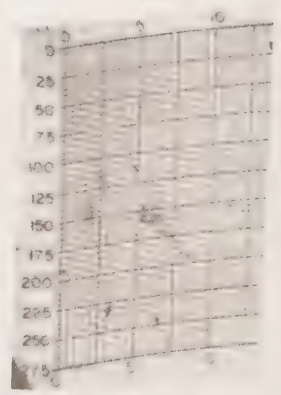
261



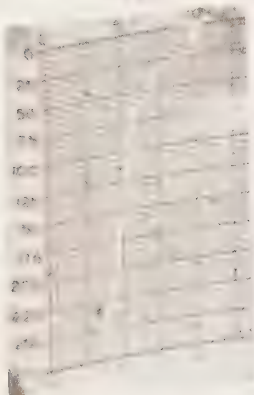
262



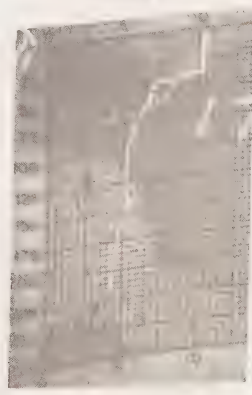
263



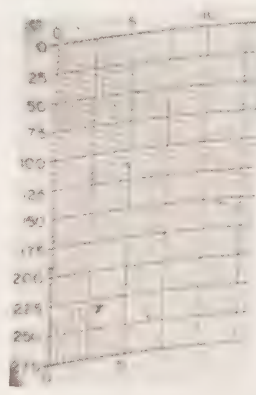
264



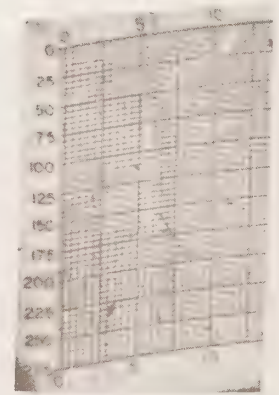
265



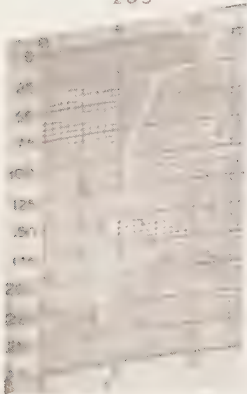
266



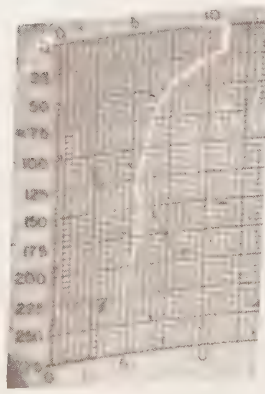
267



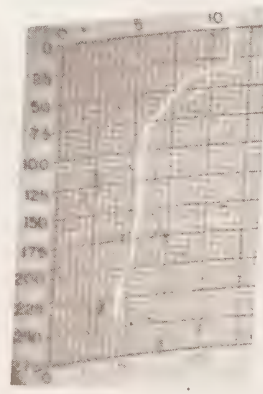
268



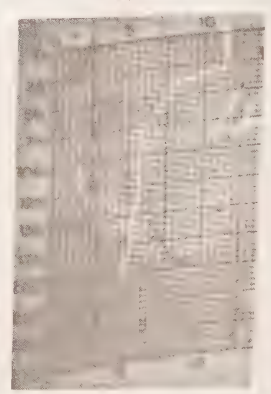
269



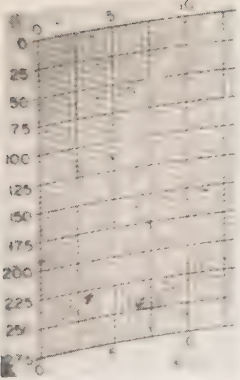
270



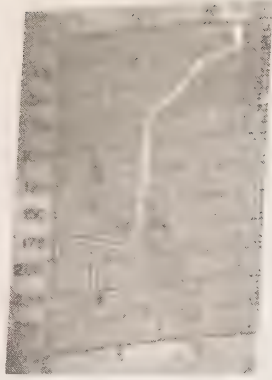
271



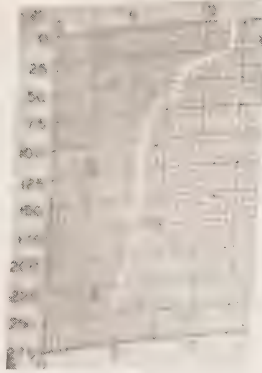
272



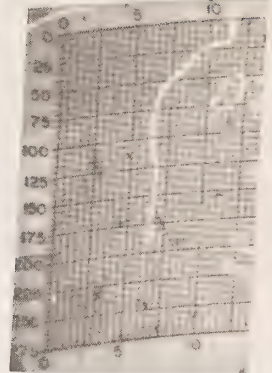
273



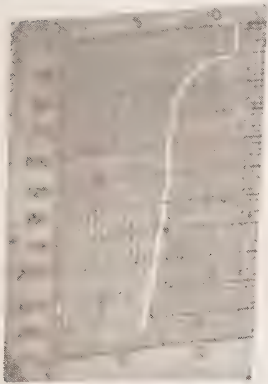
274



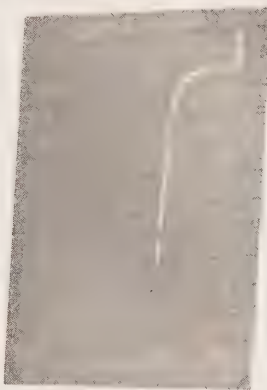
275



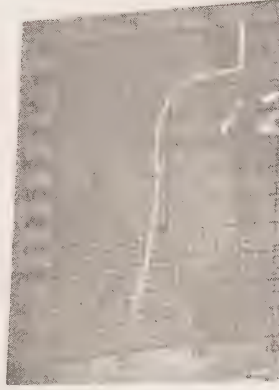
276



277



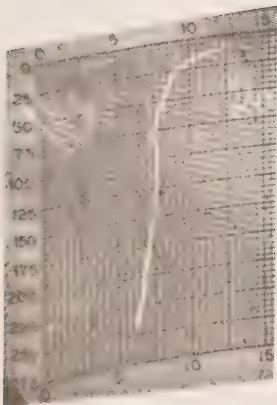
278



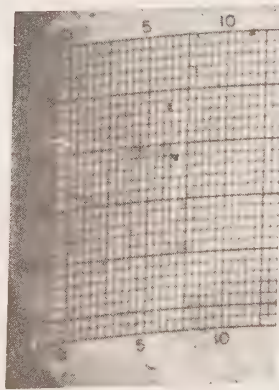
279



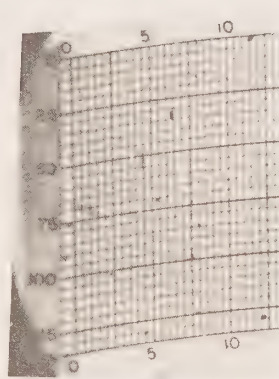
280



281



282



283

CCGS "STONETOWN" Patrol No. 70

BATHYTHERMOGRAMS

TABLE I

CON No	LAT		LONG		DATE			GMT		DEPTH fms Chart	BAR Mbs	W W Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
001	48	33	125	32	02	07	66	00	30	0110	12	02	06	21		21		6	8
002	48	38	126	00	02	07	66	03	00	0106	11	01	12	21		21		0	6
003	48	42	126	40	02	07	66	05	00	1300	12	02	25	53		21		6	6
004	49	04	131	40	03	07	66	01	00	2875	18	02	20	22		32		6	8
005	49	08	132	40	03	07	66	04	30	3275	20	02	30	22		32		6	8
006	49	22	135	40	03	07	66	17	00	3200	26	02	20	53		63		1	8
007	49	27	136	40	03	07	66	20	00	3775	26	02	20	43		63		1	8
008	49	30	137	40	03	07	66	23	15	3850	27	02	15	32		54		4	8
009	49	38	138	40	04	07	66	02	30	3890	27	02	20	33		35		6	8
010	49	41	139	40	04	07	66	05	30	3840	28	02	10	33		35		6	8
011	49	46	140	40	04	07	66	09	00	3881	28	02	05	20		35		4	8
012	49	51	141	40	04	07	66	12	30	3970	28	02	05	20		34		7	8
013	49	55	142	40	04	07	66	16	30	3910	28	02	08	20		34		7	8
014	50	00	143	40	04	07	66	21	30	4115	28	42	08	20		34		7	8
015	50	04	144	40	05	07	66	03	40	4221	28	42	12	20		32		7	8
016	50	00	144	56	05	07	66	06	00	4221	30	45	13	22		23		8	9
017	50	00	145	03	05	07	66	09	00	4221	30	45	07	2X		2X		8	9
018	50	00	144	56	05	07	66	12	00	4221	30	45	07	2X		2X		8	9
019	50	02	144	58	05	07	66	15	00	4221	31	45	04	20		22		8	9
020	50	04	144	57	05	07	66	18	00	4221	32	02	06	22		2X		6	8
021	50	02	144	56	05	07	66	21	00	4221	33	02	07	20		22		6	8
022	50	00	145	01	06	07	66	00	00	4221	33	47	05	20		22		8	9
023	49	55	144	58	06	07	66	03	00	4221	33	47	02	20		23		8	9
024	49	58	144	55	06	07	66	06	00	4221	33	51	06	20		23		8	9
025	49	58	144	55	06	07	66	09	00	4221	33	10	05	2X		2X		6	6

TABLE I

CON No	LAT		LONG		DATE			GMT		DEPTH fms Chart	BAR Mbs	WW Code	WIND Amt	W-1		W-2		CLOUD		
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A	
026	49	58	145	03	06	07	66	12	00	4221	33	51	11	2X		2X		7	8	
027	49	59	144	57	06	07	66	15	00	4221	33	10	04	23		22		7	2	
028	50	00	144	54	06	07	66	18	00	4221	33	44	07	20		22			0	
029	49	59	144	53	06	07	66	21	00	4221	33	10	10	20		22		7	7	
030	50	00	144	59	07	07	66	00	00	4221	33	47	14	21		22		8	9	
031	49	59	144	56	07	07	66	03	00	4221	32	02	09	22		21		6	8	
032	49	57	144	53	07	07	66	06	00	4221	33	51	11	22		25		7	8	
033	49	52	144	53	07	07	66	09	00	4221	33	10	08	2X		2X		6	8	
034	50	00	145	00	07	07	66	12	00	4221	32	02	18	2X		2X		6	8	
035	49	57	144	56	07	07	66	15	00	4221	32	02	19	23		24		6	8	
036	49	56	144	54	07	07	66	18	00	4221	33	02	14	23		23		6	8	
037	49	51	144	54	07	07	66	21	00	4221	33	02	14	23		22		6	8	
038	49	56	144	58	08	07	66	00	00	4221	32	02	12	23		2X		6	8	
039	49	54	144	55	08	07	66	03	00	4221	32	02	12	23		2X		6	8	
040	50	00	144	59	08	07	66	06	00	4221	32	02	17	23		2X		6	8	
041	49	56	144	55	08	07	66	09	00	4221	32	02	13	2X		2X		6	8	
042	50	01	145	00	08	07	66	12	00	4221	31	02	17	2X		2X		6	8	
043	50	00	145	01	08	07	66	15	00	4221	30	02	09	23		24		6	8	
044	49	58	144	59	08	07	66	18	00	4221	31	02	10	23		23		6	8	
045	50	00	144	56	08	07	66	21	00	4221	30	02	08	22		22		6	8	
046	49	58	144	55	09	07	66	00	00	4221	29	02	12	22		22		6	3	
047	49	54	144	49	09	07	66	03	00	4221	28	02	14	23		22		6	8	
048	49	58	144	56	09	07	66	06	00	4221	27	51	19	23		25		7	8	
049	50	02	145	00	09	07	66	09	00	4221	26	51	20	2X		2X		7	8	
050	50	00	145	01	10	07	66	12	00	4221	29	10	12	2X		2X		7	8	

TABLE I

CON No	LAT		LONG		DATE			GMT		DEPTH fms Chart	BAR Mbs	W W Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
051	49	56	144	59	10	07	66	18	00	4221	32	44	08	22	23	0	1		
052	49	58	144	56	10	07	66	21	00	4221	32	44	08	22	23	1	1		
053	49	57	144	52	11	07	66	00	00	4221	33	44	08	21	23	7	8		
054	49	55	144	50	11	07	66	03	00	4221	33	47	04	21	23	8	9		
055	50	02	145	03	11	07	66	06	00	4221	33	51	09	22	23	8	9		
056	50	00	145	03	11	07	66	09	00	4221	34	51	07	2X	2X	8	9		
057	50	00	145	00	11	07	66	12	00	4221	33	02	06	2X	2X	6	8		
058	50	03	144	57	11	07	66	15	00	4221	33	44	04	20	23	6	6		
059	50	05	144	54	11	07	66	18	00	4221	34	02	08	20	22	6	7		
060	50	05	144	55	11	07	66	21	00	4221	34	02	09	21	22	6	7		
061	50	00	144	58	12	07	66	00	00	4221	33	10	13	22	23	7	8		
062	49	59	144	58	12	07	66	03	00	4221	32	10	08	21	23	7	8		
062	49	59	144	55	12	07	66	06	00	4221	32	02	10	21	22	6	7		
063	49	57	144	50	12	07	66	09	00	4221	31	02	11	2X	2X	6	6		
064	49	59	144	55	12	07	66	12	00	4221	30	61	14	2X	2X	6	8		
065	50	02	145	04	12	07	66	15	00	4221	29	02	06	23	24	6	8		
066	50	04	145	01	12	07	66	18	00	4221	29	02	12	22	23	6	8		
067	50	05	144	55	12	07	66	21	00	4221	28	02	11	22	23	6	8		
068	50	01	145	00	13	07	66	00	00	4221	27	61	18	22	23	6	8		
069	50	02	144	57	13	07	66	03	00	4221	25	02	12	23	22	6	8		
070	50	01	144	59	13	07	66	06	00	4221	24	61	16	24	23	7	8		
071	49	56	145	00	13	07	66	09	00	4221	24	61	17	2X	2X	8	9		
072	49	59	144	58	13	07	66	12	00	4221	23	45	19	2X	2X	8	9		
073	49	57	145	12	13	07	66	15	00	4221	21	61	13	22	24	8	9		
074	49	55	145	10	13	07	66	18	00	4221	20	45	08	22	23	8	9		

TABLE I

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
075	49	56	145	08	13	07	66	21	00	4221	20	10	03	20		23		6	6
076	49	56	145	03	14	07	66	00	00	4221	19	10	02	23		24		7	8
077	49	56	145	00	14	07	66	03	00	4221	19	10	01	20		25		7	8
078	49	55	145	01	14	07	66	06	00	4221	19	10	06	20		23		7	8
079	49	55	145	02	14	07	66	09	00	4221	19	10	04	2X		2X		7	8
080	49	55	145	00	14	07	66	12	00	4221	19	01	00	2X		2X		7	6
081	49	55	144	58	14	07	66	15	00	4221	19	10	00	20		23		7	8
082	49	55	144	55	14	07	66	18	00	4221	19	10	02	23		25		7	7
083	49	52	144	54	14	07	66	21	00	4221	18	10	04	20		23		8	7
084	49	58	145	00	15	07	66	00	00	4221	16	02	09	23		22		6	8
085	50	00	145	00	15	07	66	03	00	4221	14	61	12	23		22		6	8
086	50	02	144	59	15	07	66	06	00	4221	13	45	13	22		22		8	9
087	50	05	144	52	15	07	66	09	00	4221	13	45	15	2X		2X		8	9
088	49	57	144	52	15	07	66	12	00	4221	12	28	20	2X		2X		7	8
089	50	00	145	02	15	07	66	15	00	4221	13	80	15	24		24		8	7
090	50	03	145	03	15	07	66	18	00	4221	13	02	26	24		22		6	8
091	50	02	144	59	15	07	66	21	00	4221	13	02	22	25		23		6	7
092	49	56	145	04	17	07	66	03	00	4221	12	02	12	25		22		6	8
093	49	55	145	01	17	07	66	06	00	4221	12	02	09	23		22		6	8
094	49	55	144	58	17	07	66	09	00	4221	13	02	08	2X		2X		6	8
095	49	54	144	59	17	07	66	12	00	4221	13	61	12	2X		2X		6	8
096	49	53	144	57	17	07	66	15	00	4221	13	02	04	20		25		6	8
097	49	59	144	55	17	07	66	18	00	4221	15	02	08	22		24		6	8
098	49	57	144	56	17	07	66	21	00	4221	16	02	07	20		23		8	3
099	49	56	144	57	18	07	66	00	00	4221	17	02	08	21		23		8	2

TABLE I

CON No	LAT		LONG		DATE			GMT		DEPTH fms Chart	BAR Mbs	WW Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
100	49	53	144	50	18	07	66	03	00	4221	18	02	06	21	23	8	3		
101	50	04	145	00	18	07	66	06	00	4221	19	02	14	22	22	8	4		
102	50	03	145	00	18	07	66	09	00	4221	19	02	12	2X	2X	8	5		
103	50	04	144	57	18	07	66	12	00	4221	19	02	12	2X	2X	7	8		
104	49	53	144	50	18	07	66	15	00	4221	19	50	14	22	22	7	8		
105	49	54	144	47	18	07	66	18	00	4221	20	20	12	22	23	6	8		
106	49	55	145	47	18	07	66	21	00	4221	21	02	09	23	24	6	8		
107	49	59	144	56	19	07	66	00	00	4221	21	02	11	22	23	7	8		
108	50	02	144	57	19	07	66	03	00	4221	21	02	08	22	23	7	8		
109	50	01	144	56	19	07	66	06	00	4221	22	02	06	22	22	7	8		
110	49	59	144	56	19	07	66	09	00	4221	22	02	02	2X	2X	7	8		
111	49	58	144	54	19	07	66	12	00	4221	21	10	00	2X	2X	7	8		
112	49	51	144	51	19	07	66	15	00	4221	22	10	04	20	22	7	8		
113	49	56	144	52	19	07	66	18	00	4221	22	02	03	20	22	6	8		
114	50	01	144	48	19	07	66	21	00	4221	22	02	07	20	22	6	8		
115	50	01	144	55	20	07	66	00	00	4221	21	02	07	20	22	6	8		
116	50	00	145	00	20	07	66	03	00	4221	20	02	09	22	23	6	8		
117	50	03	145	04	20	07	66	06	00	4221	19	02	11	23	22	6	8		
118	50	04	145	07	20	07	66	09	00	4221	18	02	13	2X	2X	6	8		
119	50	00	145	00	20	07	66	12	00	4221	16	61	17	2X	2X	7	8		
120	50	02	145	05	20	07	66	15	00	4221	15	51	15	23	2X	7	8		
121	50	04	145	08	20	07	66	18	00	4221	15	51	13	23	23	7	8		
122	50	06	145	13	20	07	66	21	00	4221	14	51	08	23	24	7	8		
123	50	02	145	05	21	07	66	00	00	4221	14	10	05	20	24	7	8		
124	50	02	144	55	21	07	66	03	00	4221	14	02	16	24	23	6	7		

TABLE I

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
125	49	56	145	03	21	07	66	06	00	4221	15	02	09	23	23	6	8		
126	49	58	145	01	21	07	66	09	00	4221	15	02	04	2X	2X	6	8		
127	49	58	144	58	21	07	66	12	00	4221	15	02	03	2X	2X	6	8		
128	49	57	145	06	21	07	66	15	00	4221	15	47	00	20	2X	8	9		
129	49	58	145	06	21	07	66	18	00	4221	16	45	00	20	22	8	9		
130	49	58	145	03	21	07	66	21	00	4221	16	51	08	21	23	8	9		
131	49	59	145	00	22	07	66	00	00	4221	17	51	01	20	22	6	8		
132	49	57	145	04	22	07	66	03	00	4221	17	10	01	20	21	6	8		
133	49	57	145	04	22	07	66	06	00	4221	18	02	00	20	21	6	8		
134	49	58	145	03	22	07	66	09	00	4221	19	51	00	2X	2X	7	8		
135	49	57	145	05	22	07	66	12	00	4221	19	01	00	2X	2X	6	5		
136	49	57	145	00	22	07	66	15	00	4221	21	02	03	20	22	6	7		
137	50	02	145	00	22	07	66	18	00	4221	22	51	05	20	22	6	8		
138	50	02	144	57	22	07	66	21	00	4221	23	02	06	21	22	8	7		
139	50	03	144	55	23	07	66	00	00	4221	24	02	05	21	2X	6	8		
140	49	58	144	58	23	07	66	03	00	4221	25	02	07	22	22	6	8		
141	49	55	144	56	23	07	66	06	00	4221	27	02	05	20	22	6	8		
142	49	57	144	54	23	07	66	09	00	4221	28	02	06	2X	2X	7	8		
143	50	01	144	57	23	07	66	12	00	4221	29	02	07	2X	2X	7	8		
144	50	03	144	57	23	07	66	15	00	4221	30	02	04	20	21	6	6		
145	50	03	144	52	23	07	66	18	00	4221	31	02	05	20	21	6	7		
146	50	02	144	50	23	07	66	21	00	4221	32	02	06	21	2X	6	7		
147	50	02	145	00	24	07	66	00	00	4221	32	02	08	21	2X	6	8		
148	50	00	145	00	24	07	66	03	00	4221	32	51	06	22	2X	6	8		
149	50	00	144	59	24	07	66	06	00	4221	33	02	03	20	21	6	7		

TABLE I

CON No	LAT		LONG		DATE			TIME		STATION	BAR	W.A. Code	WIND AmI	W-1		W-2		CLOUD	
	deg	min	deg	min	Day	Month	Yr	Min	Sec					P	H	P	H	T	A
150	49	59	144	58	24	07	66	09	00	4221	33	02	03	2X		2X		6	8
151	49	58	144	59	24	07	66	12	00	4221	33	21	05	2X		2X		4	8
152	49	59	144	49	24	07	66	15	00	4221	33	51	06	20		22		7	8
153	49	58	145	01	24	07	66	18	00	4221	33	02	07	21		22		6	8
154	50	04	145	00	24	07	66	21	00	4221	32	44	06	22		23		7	8
155	50	02	145	00	25	07	66	00	00	4221	32	10	07	21		23		7	8
156	50	00	144	52	25	07	66	03	00	4221	32	47	08	21		22		8	9
157	50	01	145	06	25	07	66	06	00	4221	32	45	13	21		22		8	9
158	50	00	145	05	25	07	66	09	00	4221	33	61	10	2X		2X		7	8
159	50	00	145	00	25	07	66	12	00	4221	32	45	13	2X		2X		8	9
160	49	57	144	58	25	07	66	15	00	4221	32	45	15	22		2X		8	9
161	50	02	145	00	25	07	66	18	00	4221	33	45	20	23		2X		8	9
162	50	02	145	02	25	07	66	21	00	4221	34	47	14	22		24		8	9
163	50	01	144	56	26	07	66	00	00	4221	35	45	17	22		23		8	9
164	49	57	144	49	26	07	66	03	00	4221	34	44	13	23		23			0
165	50	02	145	03	26	07	66	06	00	4221	34	44	13	22		2X			0
166	50	02	145	03	26	07	66	09	00	4221	34	45	14	2X		2X		8	9
167	50	01	145	02	26	07	66	12	00	4221	34	28	08	2X		2X		7	8
168	49	58	144	55	26	07	66	15	00	4221	33	10	11	22		23		7	8
169	50	01	145	01	26	07	66	18	00	4221	33	02	13	22		22		7	7
170	50	01	145	00	26	07	66	21	00	4221	33	02	13	22		2X		6	7
171	50	03	144	54	27	07	66	00	00	4221	32	02	15	23		2X		6	8
172	50	02	144	49	27	07	66	03	00	4221	31	02	17	24		2X		7	8
173	50	01	144	57	27	07	66	06	00	4221	30	02	20	25		2X		6	8
174	49	59	145	00	27	07	66	09	00	4221	28	10	25	2X		2X		7	8

TABLE I

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	W W Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
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176	50	02	144	49	27	07	66	15	00	4221	25	61	18	24		2X		7	8
177	49	58	144	52	27	07	66	18	00	4221	25	02	18	24		2X		6	8
178	50	01	144	56	27	07	66	21	00	4221	25	02	15	24		23		7	8
179	50	00	144	58	28	07	66	00	00	4221	25	80	20	25		2X		6	8
180	49	57	145	03	28	07	66	03	00	4221	24	02	13	25		2X		6	8
181	49	56	145	01	28	07	66	06	00	4221	24	02	12	24		2X		6	8
182	49	58	144	54	28	07	66	09	00	4221	24	02	10	2X		2X		6	8
183	50	00	145	00	28	07	66	12	00	4221	23	02	17	2X		2X		6	8
184	50	02	144	49	28	07	66	15	00	4221	23	02	14	23		24		6	8
185	50	00	144	58	28	07	66	18	00	4221	22	80	14	22		23		6	8
186	49	59	144	57	28	07	66	21	00	4221	22	61	13	23		23		6	8
187	50	00	144	54	29	07	66	00	00	4221	22	61	17	25		2X		6	8
188	50	02	144	57	29	07	66	03	00	4221	21	61	15	24		2X		6	8
189	49	59	144	56	29	07	66	06	00	4221	21	02	11	24		25		7	8
190	49	58	144	55	29	07	66	09	00	4221	21	02	13	2X		2X		7	8
191	50	00	145	00	29	07	66	12	00	4221	21	10	13	2X		2X		7	8
192	50	00	144	55	29	07	66	15	00	4221	21	02	09	24		22		6	8
193	49	59	144	54	29	07	66	18	00	4221	21	02	05	20		23		6	8
194	49	58	144	48	29	07	66	21	00	4221	21	10	08	22		24		7	8
195	49	59	144	58	30	07	66	00	00	4221	21	02	15	23		2X		6	8
196	50	02	145	02	30	07	66	03	00	4221	20	02	08	23		2X		6	7
197	50	00	144	59	30	07	66	06	00	4221	20	02	10	23		2X		6	8
198	50	01	144	54	30	07	66	09	00	4221	20	02	12	2X		2X		6	8
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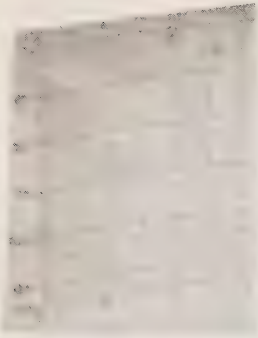
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	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
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203	50	00	145	02	31	07	66	00	00	4221	14	02	23	25		23		6	8
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208	50	00	145	02	02	08	66	03	00	4221	17	03	11	23		23		6	8
209	50	01	145	01	02	08	66	06	00	4221	18	02	08	23		24		6	8
210	49	59	144	59	02	08	66	09	00	4221	19	02	10	2X		2X		6	8
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212	49	58	144	47	02	08	66	15	00	4221	21	02	13	24		2X		6	8
213	50	00	145	00	02	08	66	18	00	4221	22	02	11	22		24		6	8
214	49	58	144	47	02	08	66	21	00	4221	22	02	09	21		24		6	8
216	49	56	144	48	03	08	66	03	00	4221	22	02	08	22		24		6	7
217	49	59	145	02	03	08	66	06	00	4221	23	02	11	21		23		6	8
218	50	01	145	00	03	08	66	09	00	4221	23	02	05	2X		2X		6	7
219	50	02	144	55	03	08	66	12	00	4221	22	02	04	2X		2X		6	5
220	50	03	144	54	03	08	66	15	00	4221	22	02	10	22		24		6	6
221	50	04	144	54	03	08	66	18	00	4221	22	15	12	22		24		8	7
222	50	06	144	55	03	08	66	21	00	4221	21	02	11	22		23		8	6
223	50	02	145	00	04	08	66	00	00	4221	20	02	16	22		23		8	7
224	50	02	145	04	04	08	66	03	00	4221	18	02	16	23		22		6	8
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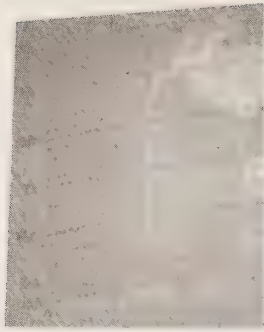
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	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
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227	50	02	144	58	04	08	66	12	00	4221	12	61	26	2X		2X		6	8
228	50	00	145	04	04	08	66	15	00	4221	09	61	22	24		25		7	8
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230	50	04	145	07	05	08	66	00	00	4221	07	61	18	25		23		8	9
231	49	59	144	59	05	08	66	03	00	4221	06	61	18	26		2X		7	8
232	49	54	144	54	05	08	66	06	00	4221	04	61	25	26		2X		4	8
233	49	58	144	55	05	08	66	12	00	4221	05	02	11	2X		2X		7	8
234	49	58	144	53	05	08	66	15	00	4221	06	61	06	23		24		7	8
235	50	01	144	58	05	08	66	18	00	4221	07	01	11	21		26		6	7
236	50	05	144	58	06	08	66	03	00	4221	09	02	14	25		2X		8	8
237	50	01	144	58	06	08	66	06	00	4221	10	02	13	24		2X		6	7
238	50	01	145	00	06	08	66	09	00	4221	09	51	09	2X		2X		7	8
239	50	02	145	02	06	08	66	12	00	4221	07	61	10	2X		2X		4	8
240	50	02	145	03	06	08	66	15	00	4221	04	61	16	24		25		4	8
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242	49	58	144	40	08	08	66	07	00	4221	04	02	30	34		24		X	9
243	49	45	143	35	08	08	66	11	00	3968	04	02	25	34		24		9	8
244	49	48	142	40	08	08	66	14	30	3910	05	02	21	34		24		X	9
245	49	44	141	40	08	08	66	20	30	3970	08	02	20	34		24		9	6
246	49	38	140	40	08	08	66	23	30	3881	12	01	20	56		34		6	7
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248	49	31	138	40	09	08	66	05	00	3890	14	02	16	56		45		3	8
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TABLE I

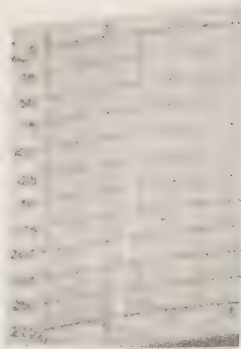
CON No	LAT		LONG		DATE			GMT		DEPTH fms Chart	BAR Mbs	W W Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
250	49	22	136	40	09	08	66	11	15	3775	16	02	15	45	33	5	8		
251	49	19	135	40	09	08	66	14	00	3200	16	02	16	32	44	5	8		
252	49	16	134	40	09	08	66	17	00	3550	16	02	15	32	44	5	8		
253	49	09	133	40	09	08	66	19	30	3200	17	02	20	34	34	5	8		
254	49	02	132	40	09	08	66	22	30	3275	17	11	25	45	33	5	8		
255	48	58	131	40	10	08	66	01	22	2875	17	02	19	45	33	5	8		
256	48	52	130	40	10	08	66	04	30	2930	17	02	20	45	33	5	8		
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260	48	36	126	40	10	08	66	16	00	1300	16	16	20	45	33	0	6		
261	48	35	126	00	10	08	66	17	30	0143	16	02	20	45	33	1	5		
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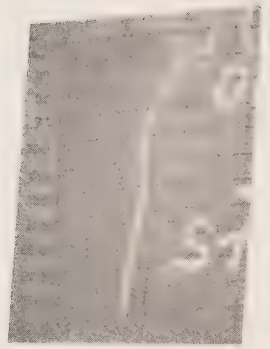
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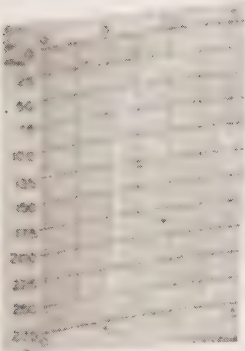
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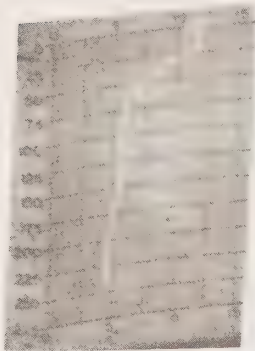
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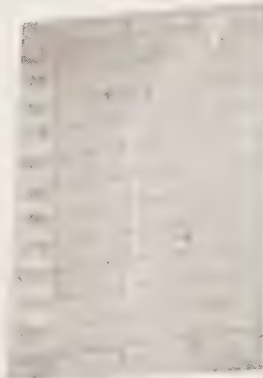
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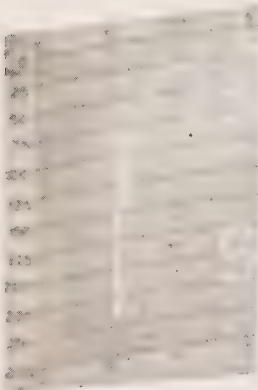
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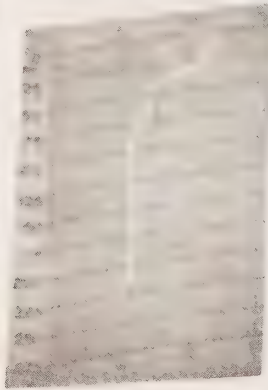
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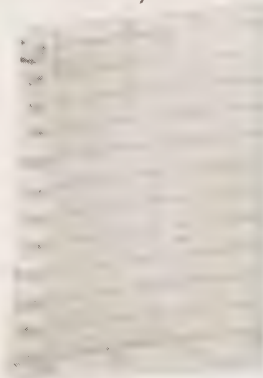
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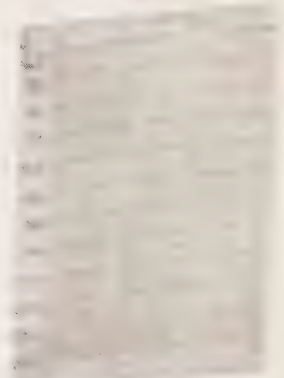
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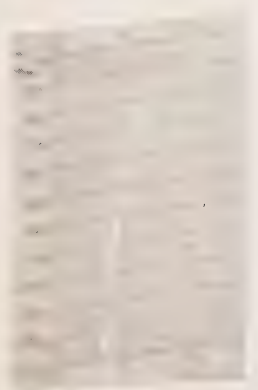
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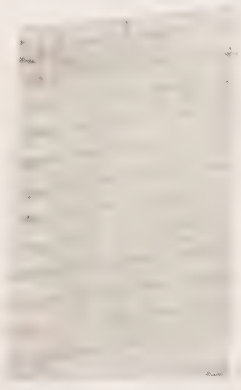
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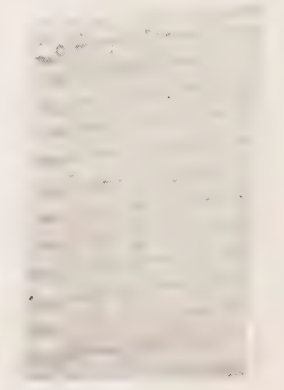
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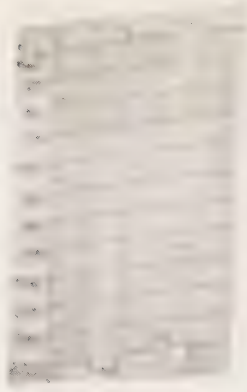
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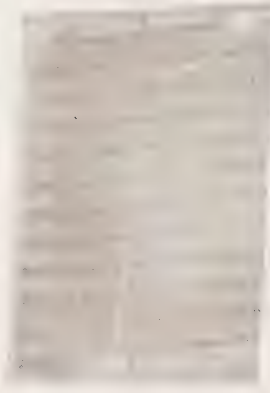
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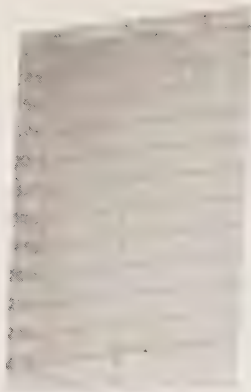
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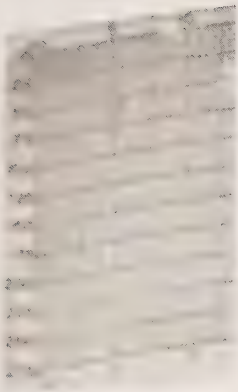
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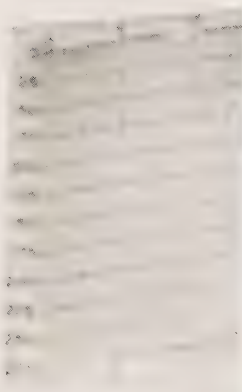
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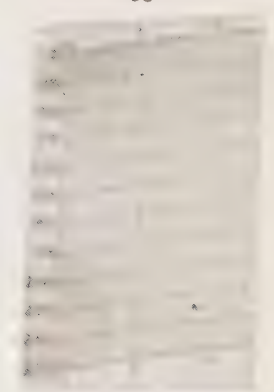
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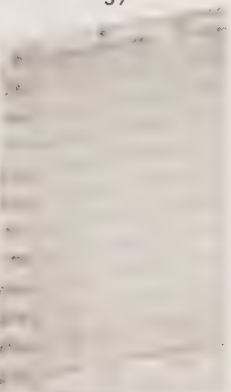
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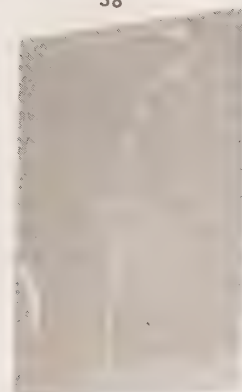
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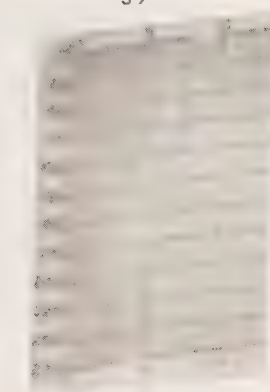
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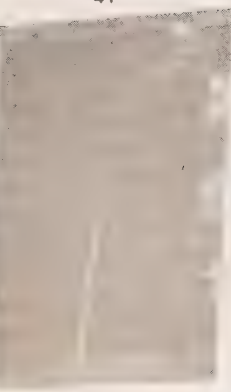
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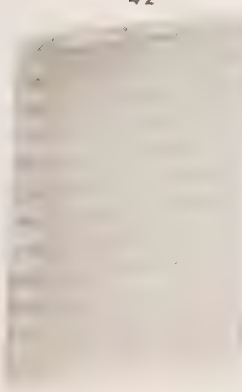
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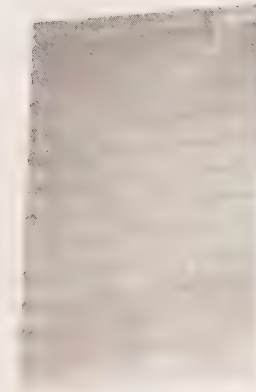
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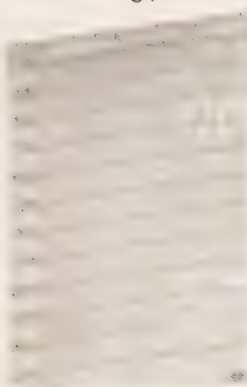
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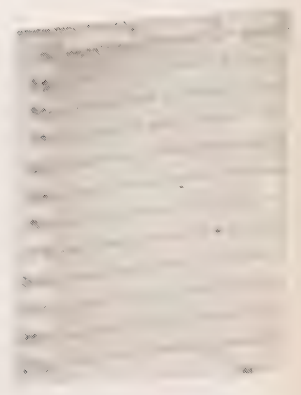
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64



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69



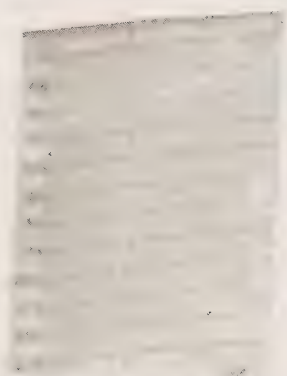
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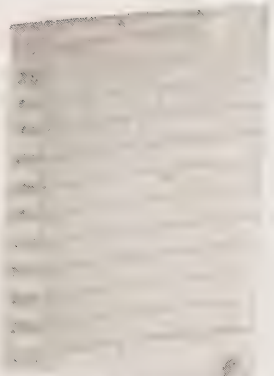
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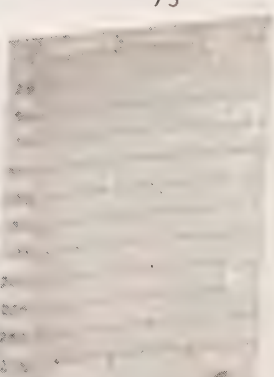
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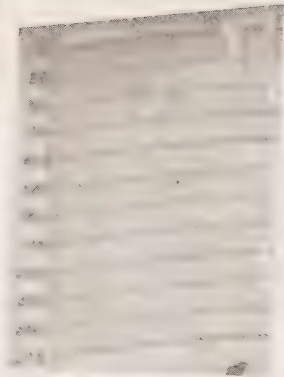
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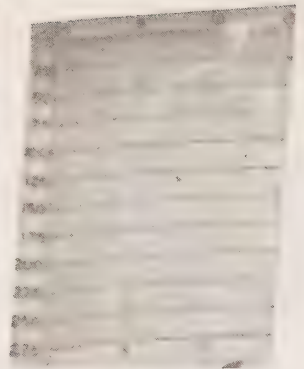
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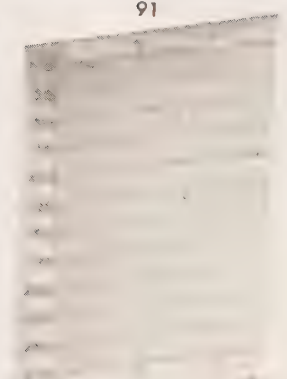
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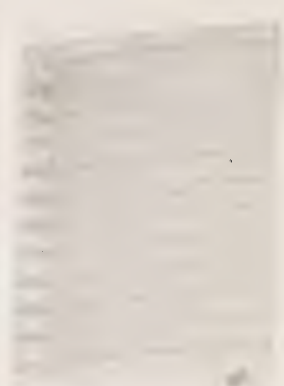
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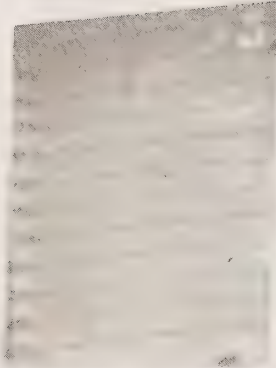
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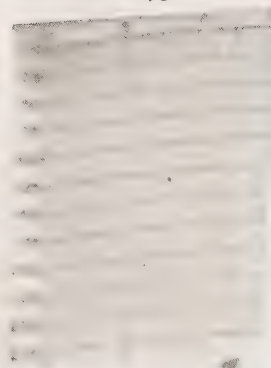
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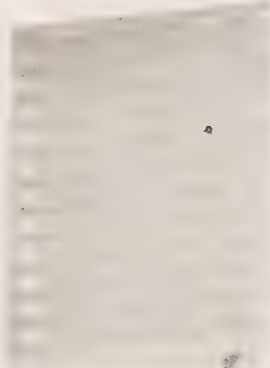
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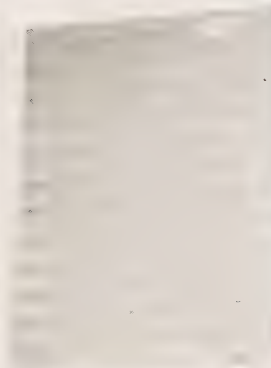
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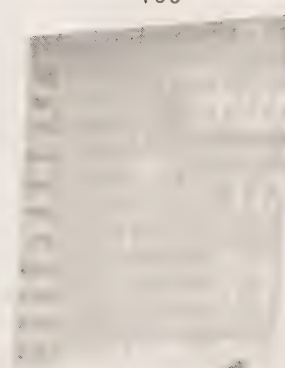
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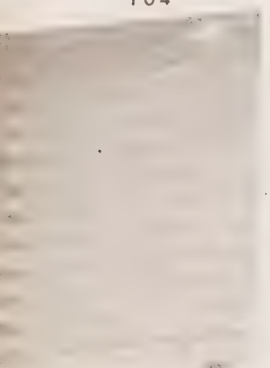
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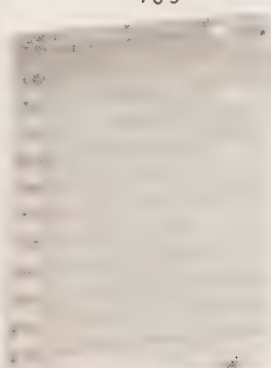
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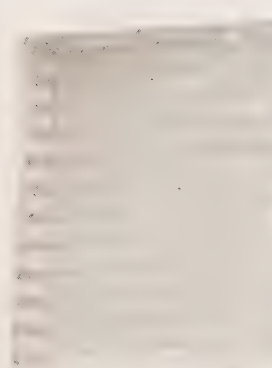
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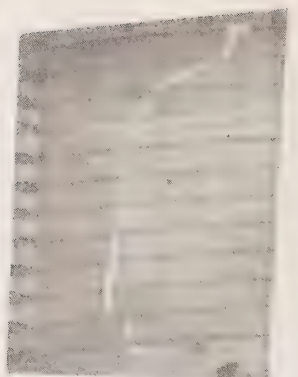
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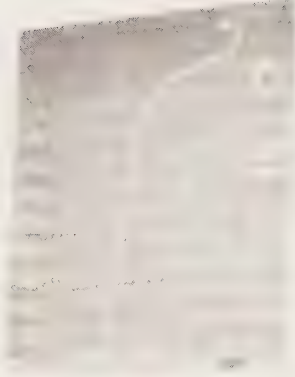
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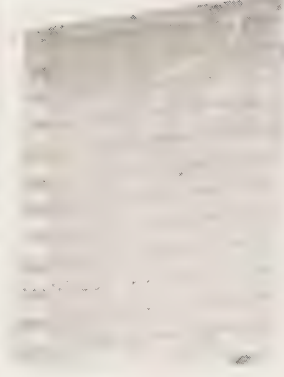
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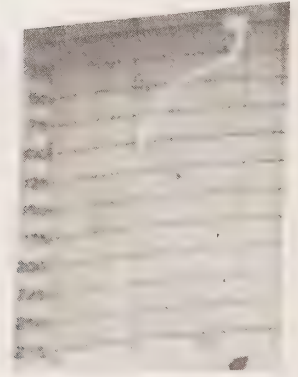
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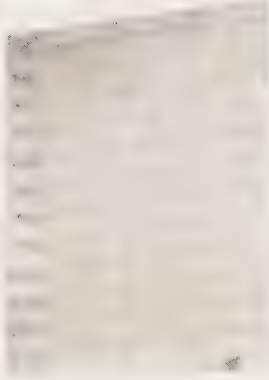
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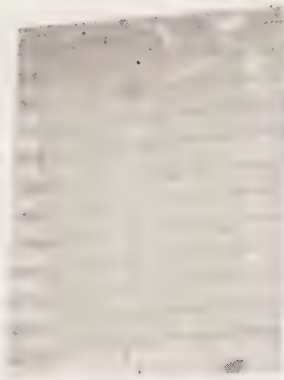
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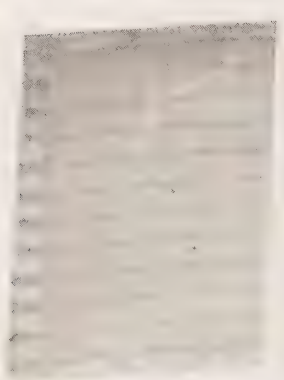
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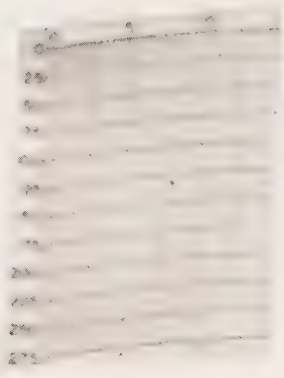
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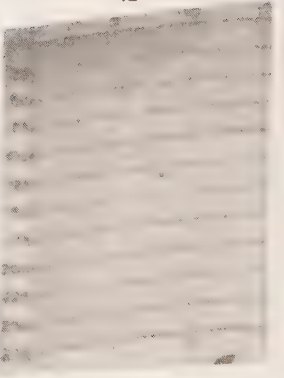
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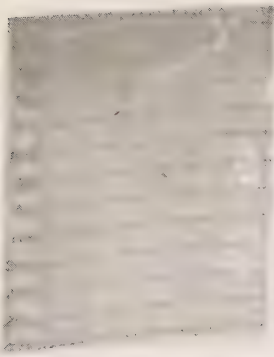
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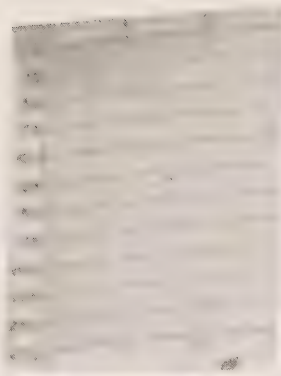
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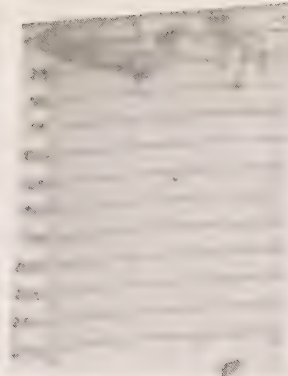
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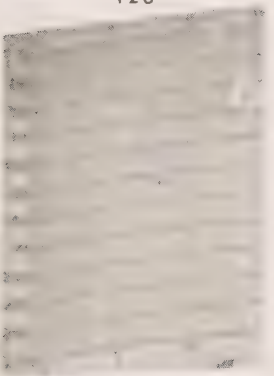
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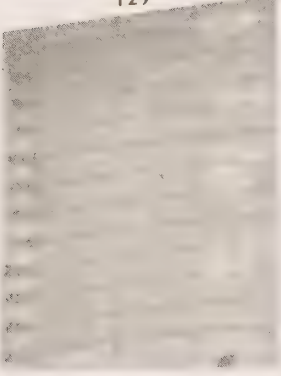
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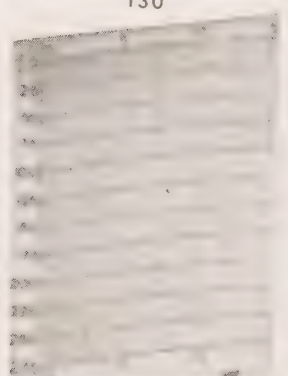
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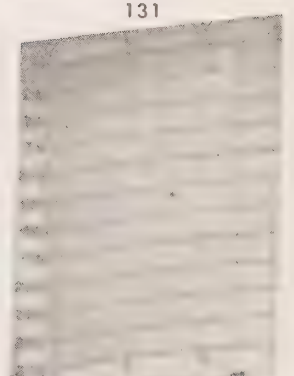
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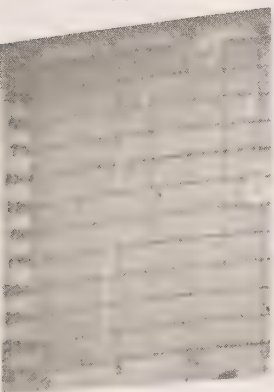
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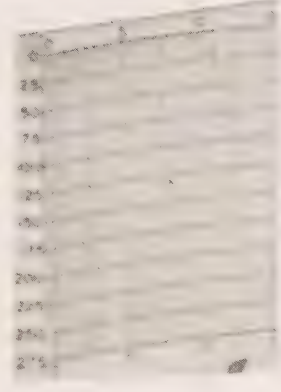
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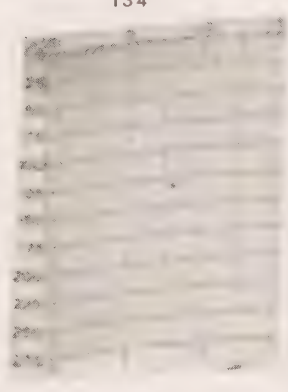
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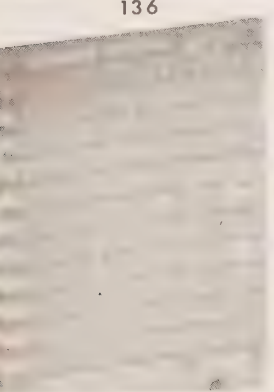
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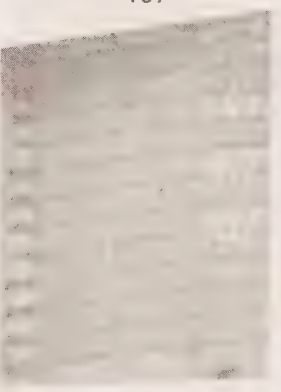
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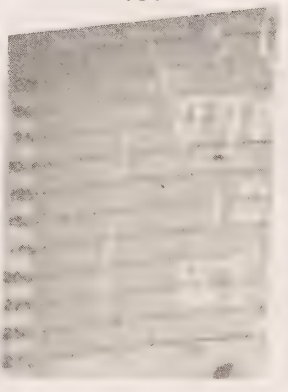
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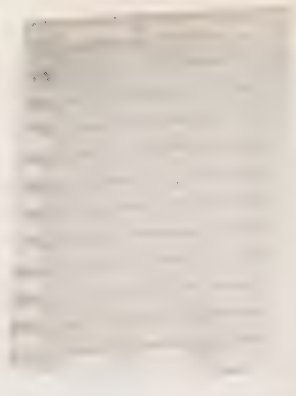
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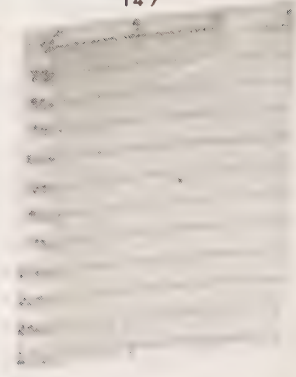
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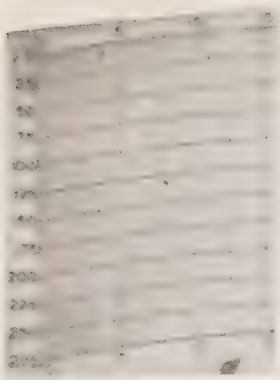
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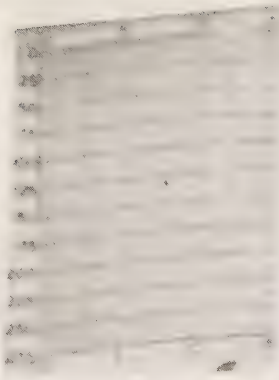
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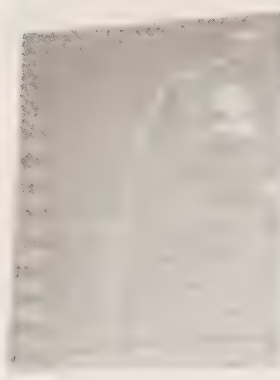
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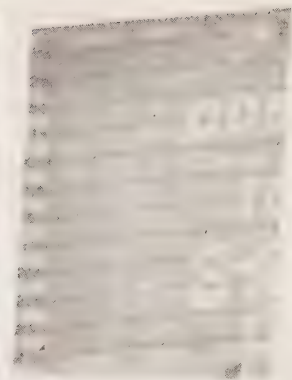
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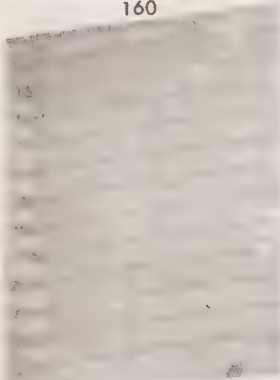
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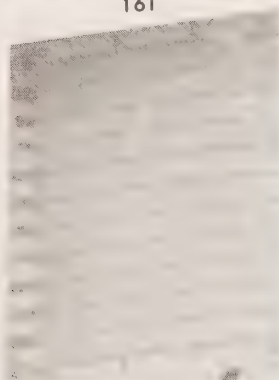
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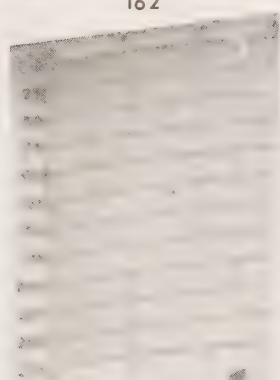
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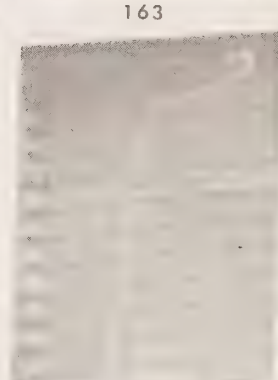
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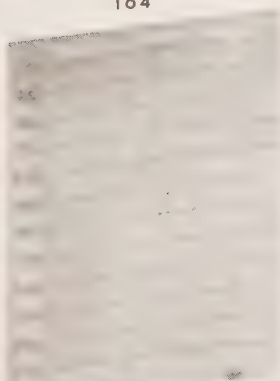
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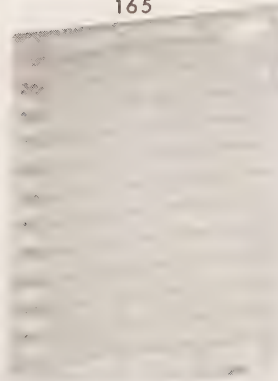
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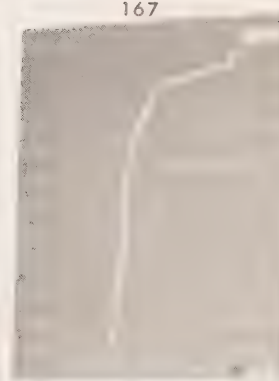
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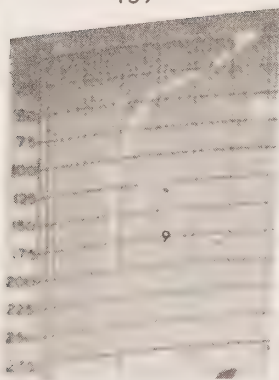
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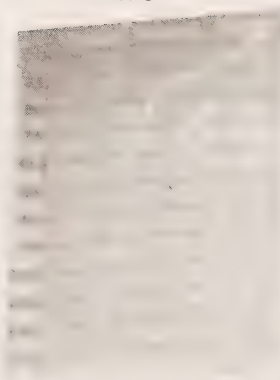
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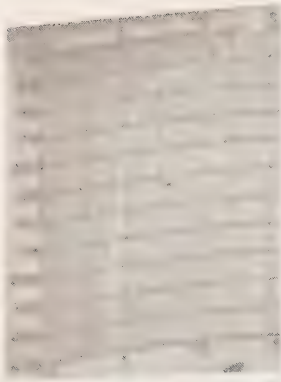
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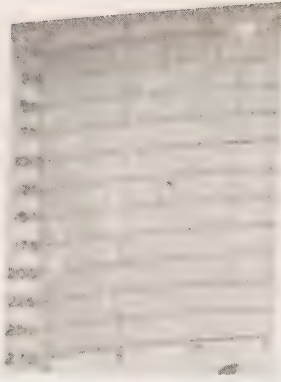
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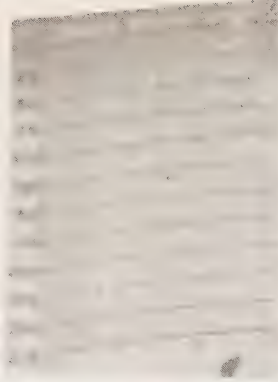
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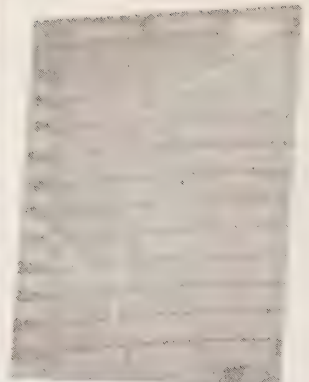
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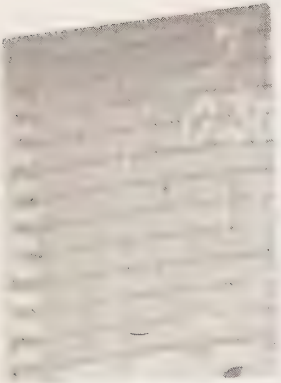
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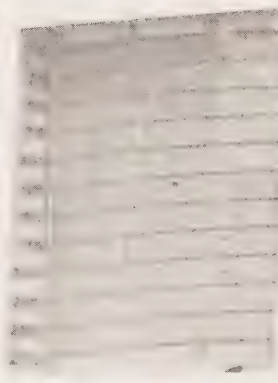
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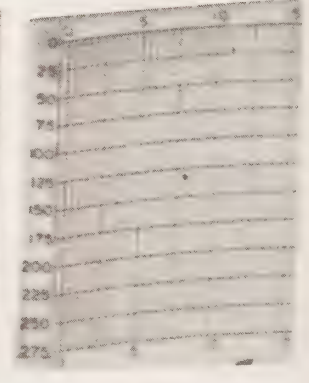
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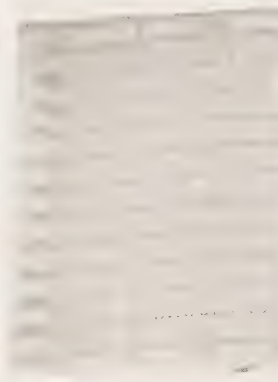
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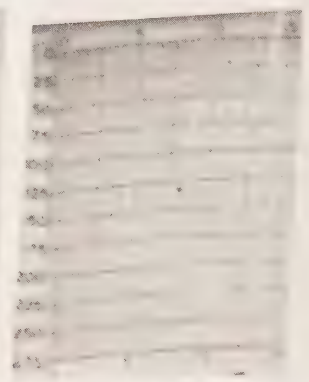
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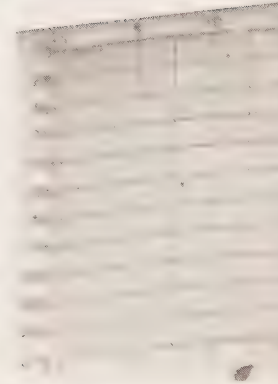
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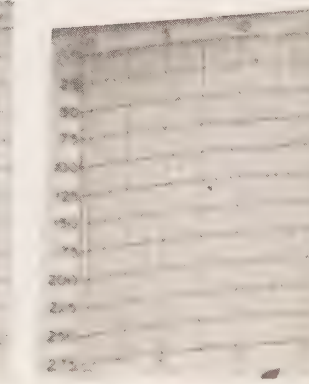
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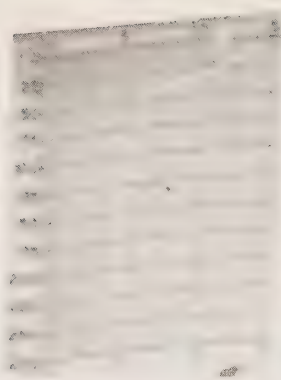
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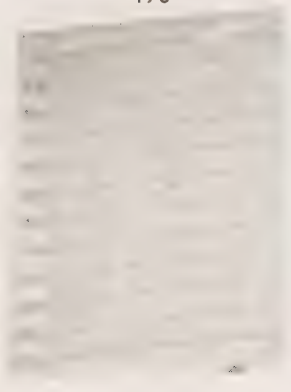
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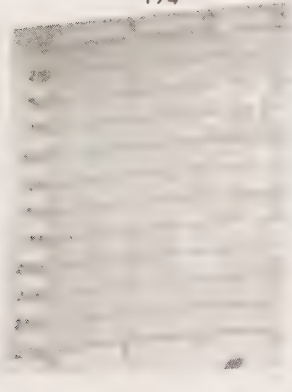
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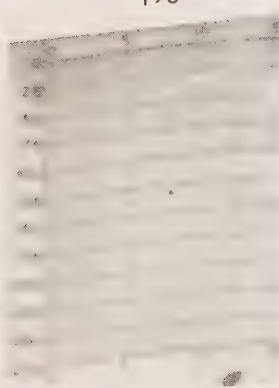
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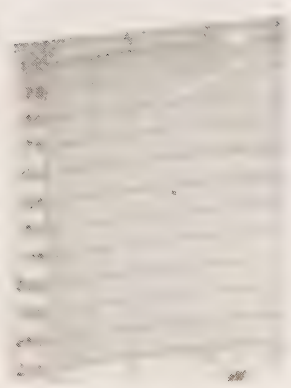
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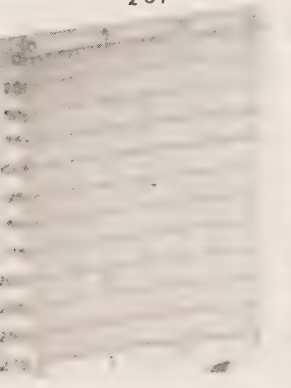
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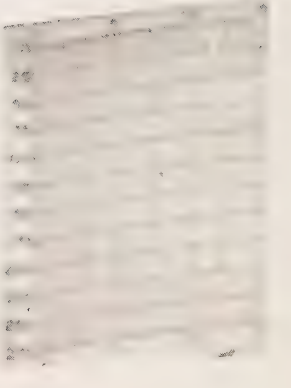
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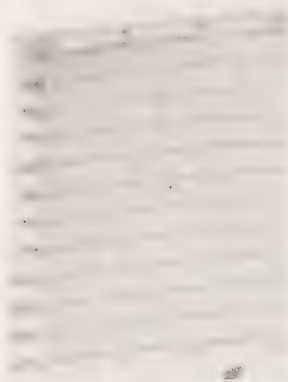
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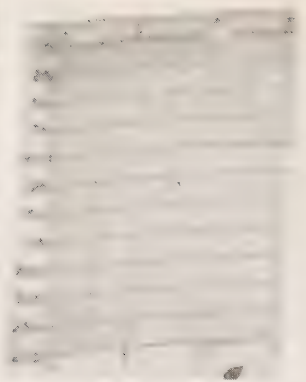
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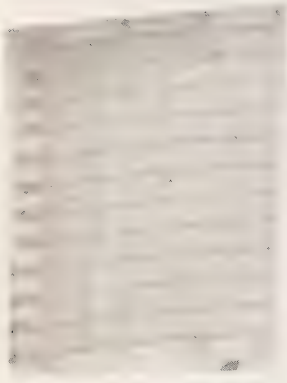
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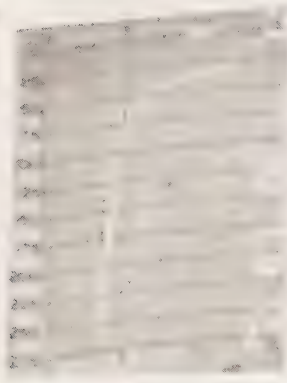
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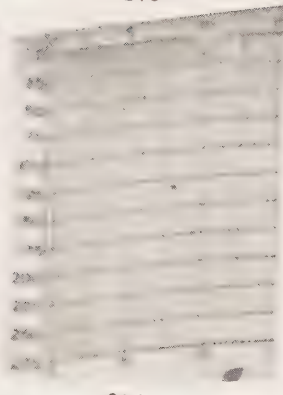
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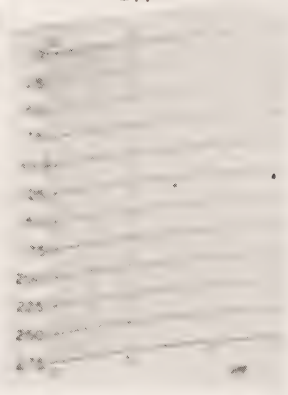
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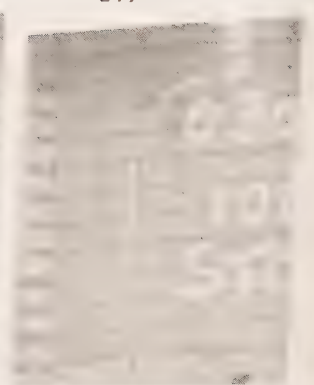
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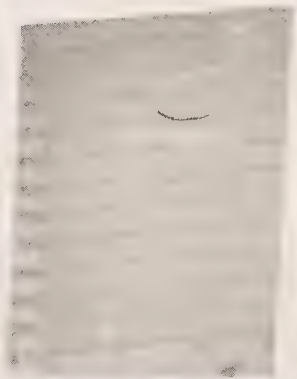
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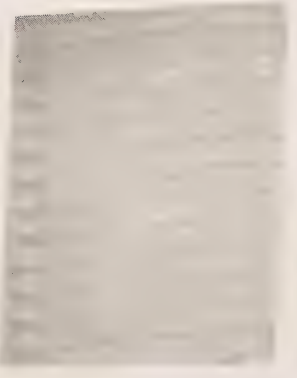
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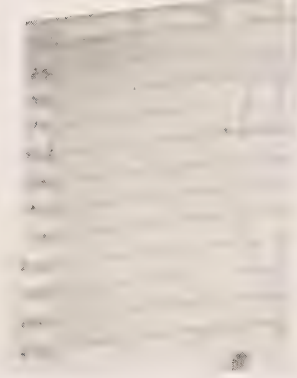
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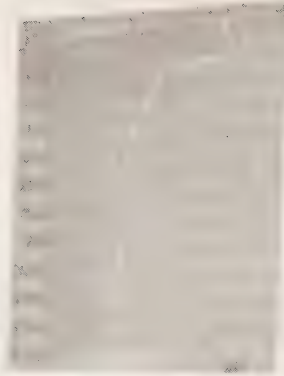
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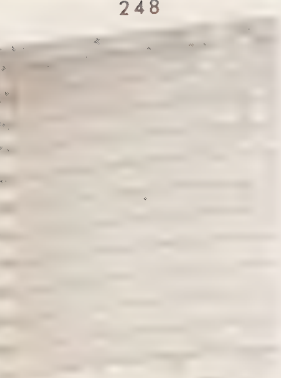
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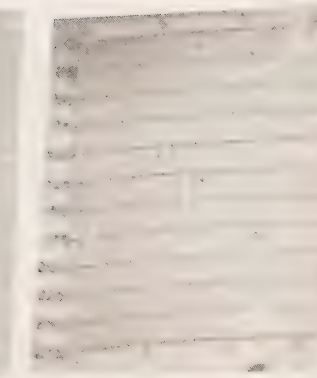
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SECTION V

Surface Salinity Data

Surface Salinity Observations

Date-Time G.M.T.	Position		Salinity ‰
	Latitude	Longitude	
CCGS "St. Catharines", Survey P-66-2			
66-05-27-23.5	48°33'n	125°33'w	31.680
28-01.7	48°38'	126°00'	32.259
28-17.5	48°55'	129°40'	32.524
29-01.2	49°04'	131°40'	32.685
29-08.0	49°13'	133°40'	32.559
29-15.0	49°21'	135°40'	32.542
29-23.0	49°30'	137°40'	32.649
30-05.8	49°38'	139°40'	32.619
66-06-02-04.8	49°18'	145°00'	32.684
03-00.0	50°05'	145°03'	32.683
04-00.0	50°13'	145°06'	32.668
05-00.0	50°07'	145°10'	32.666
06-00.0	50°06'	145°06'	32.678
07-00.0	50°02'	145°04'	32.666
08-00.0	50°07'	145°03'	32.668
09-00.0	50°05'	145°05'	32.653
10-00.0	49°55'	144°51'	32.655
11-00.0	50°00'	144°53'	32.673
12-00.0	49°58'	144°47'	32.656
13-00.0	49°59'	144°45'	32.650
14-00.0	50°02'	144°56'	32.650
15-00.0	49°59'	145°02'	32.657
16-00.0	49°54'	144°59'	32.650
17-00.0	50°05'	145°07'	32.651
18-00.0	50°06'	144°45'	32.652
19-00.0	49°59'	144°58'	32.660
20-00.0	49°59'	145°01'	32.654
21-00.0	49°54'	144°55'	32.643
22-00.0	49°58'	145°01'	32.658
23-00.0	50°04'	144°57'	32.664
24-00.0	50°05'	144°57'	32.676
25-00.0	50°03'	144°48'	32.655
26-00.0	50°04'	144°43'	32.654
27-00.0	49°50'	145°03'	32.638
28-00.0	49°48'	144°51'	32.639
29-00.0	49°57'	144°52'	32.701
30-00.0	49°57'	144°51'	32.635
66-07-01-18.0	49°48'	145°19'	32.566
04-17.3	49°46'	141°40'	32.594
05-00.1	49°39'	139°40'	32.588
05-06.5	49°30'	137°40'	32.564

Surface Salinity Observations

Date-Time	Position		Salinity
G.M.T.	Latitude	Longitude	‰
CCGS "St. Catharines", Survey P-66-2			
66-07-05-14.2	49°21'n	135°40'w	32.508
05-20.3	49°15'	133°40'	32.282
06-02.8	49°06'	131°40'	32.381
06-10.0	48°54'	129°40'	32.456
CCGS "Stonetown", Patrol No. 70			
66-07-06-00.0	50°00'	145°01'	32.652
07-00.0	50°00'	144°59'	32.664
08-00.0	49°56'	144°58'	32.623
09-00.0	49°58'	144°55'	32.466
11-00.0	49°57'	144°52'	32.630
12-00.0	50°00'	144°58'	32.630
13-00.0	50°01'	145°00'	32.545
14-00.0	49°56'	145°03'	32.645
15-00.0	49°58'	145°00'	32.661
16-00.0	49°56'	144°53'	32.540
18-00.0	49°56'	144°57'	32.625
19-00.0	49°59'	144°56'	32.589
20-00.0	50°01'	144°55'	32.611
21-00.0	50°02'	145°05'	32.566
22-00.0	49°59'	145°00'	32.585
23-00.0	50°03'	144°55'	32.577
24-00.0	50°02'	145°00'	32.401
25-00.0	50°02'	145°00'	32.417
26-00.0	50°01'	144°56'	32.342
27-00.0	50°03'	144°54'	32.579
28-00.0	50°00'	144°58'	32.598
29-00.0	50°00'	144°54'	32.336
30-00.0	49°59'	144°58'	32.618
31-00.0	50°00'	145°02'	32.605
66-08-03-00.0	50°01'	144°42'	32.432
04-00.0	50°02'	145°00'	32.668
05-00.0	50°04'	145°07'	32.561
07-00.0	49°03'	144°55'	32.309

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4	Baffin Bay, 1962	CRN 362



OCEAN WEATHER STATION 'P' NORTH PACIFIC OCEAN

August 5 to October 31, 1966

No. 6

1967 Data Record Series

Canadian Oceanographic Data Centre

Programmed by the
Canadian Committee on Oceanography

1967

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OCEAN WEATHER STATION 'P'

NORTH PACIFIC OCEAN

August 5 to October 31, 1966

**CODC Reference: 02-66-007
02-66-008**

No. 6

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Canadian Oceanographic Data Centre
615 Booth St., Ottawa, Canada

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FISHERIES RESEARCH BOARD OF CANADA

Ocean Weather Station "P" North Pacific Ocean

Ships:	CCGS "St. Catharines"	CCGS "Stonetown"
Local cruise designations:	P-66-3	Patrol No. 71
Cruise periods:	August 5-Sept. 21, 1966	Sept. 16-Oct 31, 1966
Scientist-in-Charge:	D.G. Robertson	
Observer:	K.A. Gantzer	

Pacific Oceanographic Group, Nanaimo, B.C.

SECTION I

Description of data collection procedures



Figure 1.

The Tannian Heathership C.C.G.S. " St. Catharines ".

(D.O.T. Photo)

The cinematographic winch is located on the starboard side of the signal deck, just aft of the bridge wing.



Figure 2.

The Canadian Weather Ship C.C.G.S. "Stonetown".

(D.O.T. Photo)

Bathythermograph soundings boom can be seen below the bridge on the signal deck.

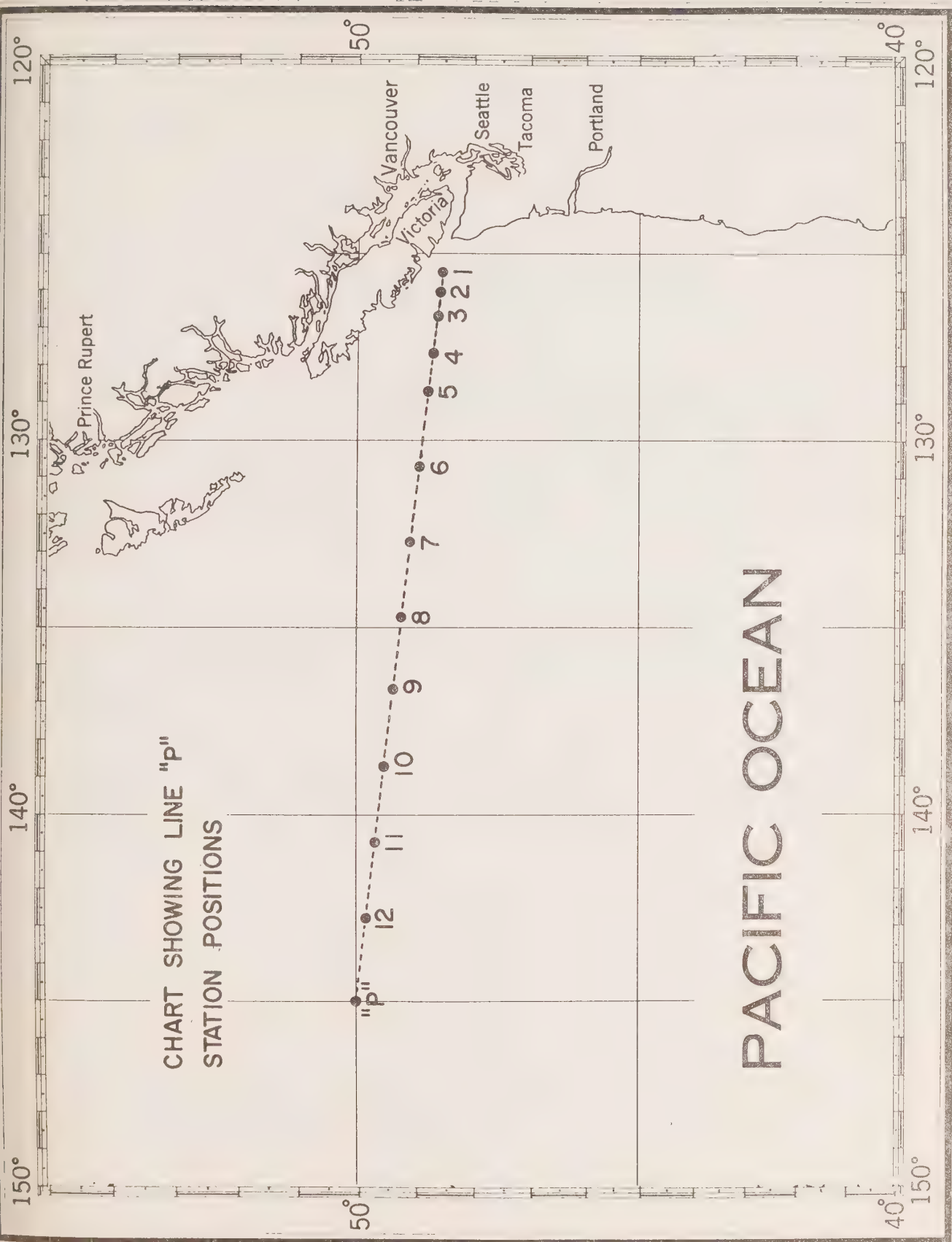


Figure 3

INTRODUCTION

Canadian operation of Ocean Weather Station "P" (latitude $50^{\circ}00'N$, longitude $145^{\circ}00'W$) was inaugurated in December 1950. The Station is manned by two vessels of the Canadian naval frigate class operated by the Marine Services of the Department of Transport. They are the CCGS "St. Catharines" and the CCGS "Stonetown" (Fig. 1 and 2) (Atlantic Oceanographic Group, MS, 1961). Each ship remains on Station for a period of 6 weeks, and is then relieved by the alternate ship, thus maintaining a continuous watch. The chief purpose of the Station is to operate as a meteorological station for surface and upper-air observations, and as an air-sea rescue station.

The CCGS "St. Catharines" is equipped with deck and laboratory facilities required to make bathythermograph and oceanographic observations. Oceanographers from the Pacific Oceanographic Group accompany the ship on each patrol. The CCGS "Stonetown" is equipped with bathythermograph equipment only. The BT observations on both ships are made by members of the ship's crew.

Bathythermograph observations have been made at Station "P" since July 1952. A program of oceanographic observations was commenced in August 1956, and it has been increased and altered to suit the requirements for new and additional information.

CRUISE LOG, CCGS "ST. CATHARINES," SURVEY P-66-3

- August 5: departed from Esquimalt, B.C.; observed 10 oceanographic stations and 19 BT casts enroute to Station "P"
- August 10: commenced regular Station "P" oceanographic schedule. Stormy weather forced cancellation of the special 8-station surveys around the grid. A total of 311 BT casts to 275 m were made on Station by the ship's crew.
- September 19: relieved by CCGS "Stonetown" and proceeded on return journey to base. Stormy weather prevented any oceanographic work, but 20 BT casts were made enroute.
- September 22: secured at Esquimalt base.

OBSERVATIONAL PROCEDURES

During survey P-66-3, water samples and temperatures were obtained at depth with Nansen reversing water sample bottles. Stations to 400 m were observed in one cast; stations to 2400 m were observed in 2 casts: 10 to 400 m, and 500 m to the deepest depth; stations to 4200 m were observed in 2 casts: 10 to 600 m, and 800 m to the deepest depth. Surface samples (0 m) were obtained in a one-gallon plastic bucket. The surface temperature was measured in this bucket with a thermometer graduated in 0.5°C intervals.

Temperatures at depth were measured with protected reversing thermometers of either German (Richter and Wiese) or Japanese (Yoshino) manufacture. The arrangement of the thermometers on the water bottles was as follows: 10 to 125 m, 2 protected thermometers at each depth; 150 to 250 m, 3 protected thermometers at each depth; 300 m to the deepest observed depth, 2 protected and one unprotected thermometer at each depth.

Station locations were determined by the officers of the watch, who also make the meteorological observations reported with the oceanographic data.

LABORATORY PROCEDURES

The salinity determinations of the oceanographic station samples from survey P-66-3, and of the daily surface samples taken in conjunction with the BT observations from both ships, were made with an inductive salinometer, Model 601 MK III (Auto-Lab Industries). Most of the oceanographic station samples were analysed on board "St. Catharines". The salinity data are the means of duplicate determinations, and are considered to have an accuracy at the 35‰ salinity level of $\pm 0.003\%$ (Brown and Hamon, 1961).

The dissolved oxygen analyses were done in the shipboard laboratory by a modified Winkler method (Strickland and Parsons, 1965). The data are the means of duplicate determinations.

BATHYTHERMOGRAPH OBSERVATIONS

BT observations were made by "St. Catharines" during survey P-66-3 along the route to and from the Station and every 3 hours whilst on Station. "Stonetown" Patrol No. 71 BT observations were considerably hampered by rough weather. Three BT casts were obtained on the trip to the Station, 192 were obtained on Station, but none were observed during the return trip.

The data were processed in the BT-aperture card format of the CODC (Sauer, 1964). The bathythermograms presented in Section IV of the data record were reproduced from these BT-aperture cards. The consecutive number entered below each bathythermogram refers to an entry in Tables 1 and 2 which list the information concerning time/date, position, and associated meteorological conditions.

For Patrol No. 71 when the BT observations were taken on main synoptic hours (00, 06, 12, 18) or intermediate synoptic hours (03, 09, 15, 21) the meteorological data have been transferred to the BT-aperture cards from the No. 9 Marine Data Cards, supplied by the Meteorological Branch of the Department of Transport, Toronto.

PERSONNEL

The scientist-in-charge of the Ocean Station "P" oceanographic program is Mr. D.G. Robertson. The observer during survey P-66-3 was Mr. K.A. Gantzer. The BT observers during survey P-66-3 and Patrol No. 71 were the ships' crews.

SECTION II

Description of the machine-generated data record

INTRODUCTION

This section applies to the machine processing phase of the data reduction and computation.

The oceanographic data previously recorded on CODC data summary forms, a sample of which is shown on the next page, are transferred to punch-cards for subsequent electronic data processing on an IBM 1620 computer, using CODC's OCEANS II program. In addition to computing routine derived quantities, the program carries out unit and format conversions, range checks, plausibility tests, internal editing, and if required, interpolation at standard oceanographic depths. When interpolations are carried out, additional derived values are computed.

After the data have been processed, the data record is prepared using an IBM 1401 computer configuration with the OCEAN REPORT III program, which provides for pre-edited high speed print-out on continuous direct-image masters. These masters subsequently yield the required volume of copies for distribution.

Provision has been made to enter an "estimate of precision" for each observed variable selected for interpolation at standard oceanographic depths. The precision depends on the instrument and/or technique used to determine the variable. A standard precision stated as a standard deviation (σ) can be determined for each instrument or technique under routine field conditions by making duplicate determinations of the variables for a homogeneous sample of sea water. These standard deviations are given for each cruise under "GENERAL INFORMATION" in section III of the data record.

The measurement error estimate of a specific observation in this data record, is stated as a multiple of the standard deviation derived as above, and entered in a column immediately to the right of the reported variable. In order to distinguish it from an additional decimal digit, the measurement error estimate is recorded alphabetically, (i.e., $1\sigma = A$, $2\sigma = B$, etc.; in this data record "A" is suppressed).

An option is provided with respect to the measurement of the salinity variable. If observed to three decimal digits, the last digit takes the place of the measurement error estimate.

In the past, a number of methods for both manual and machine interpolation have been developed. Studies and comparisons of the several methods have shown that no single method is universally acceptable. The manual methods are the most elaborate and flexible, but often require subjective decisions. In machine interpolation, all the present methods fail to yield acceptable results under some circumstances. Hence, it is considered necessary to qualify interpolated values by stating an "interpolation error estimate" derived from the particular interpolation formula used. There are two purposes in stating the error estimates; first, to give an indication of the quality of the interpolated data; second, to allow the oceanographer to redesign his observational procedures in order to reduce interpolation errors in future observations.

The interpolation scheme chosen for the OCEANS II program consists of a combination of two 3-point interpolations using the Lagrangian interpolation polynomial, as recommended by Rattray (1962). A parabola is fitted through three values of a given variable (T , S , O_2) considered as a function of depth. The two interpolation parabolas require a total of four points (observed depths). The middle points are common to both parabolas. The average of the two values obtained from the parabolas at standard depth is taken as the interpolated value, and a function of their difference as an estimate of the interpolation error.

This function combined with the "measurement error estimate" comprises the "combined measurement and interpolation error estimate". It is expressed as a multiple of the standard deviation of measurement (σ) under normal routine field conditions by:

CANADIAN OCEANOGRAPHIC DATA CENTRE

1 IDENT. CODE		2 LATITUDE (N=+)		3 LONGITUDE (W=+)		5 DATE		6 TIME		7 DEPTH		9 NO. DEPTHS OBS'D.		VESSEL	
COUNTRY INST.		DEG. MIN. 1/10		DEG. MIN. 1/10		YEAR MONTH DAY		HOURS G.M.T. 1/10		TO BOTTOM				ENTERED BY	
18														CHECKED BY	
1		2		3		4		5		6		7		8	
10 WATER		11 WAVES I		12 WAVES II		13 WIND		14 BAROMETER		15 AIR TEMP.		16 WET BULB		17 W.W. CODE	
COLOUR TRANS.		DW DP PW HW		DW DP PW HW		DIR.		18 CLOUD		19		20 HOURS AFTER		21 UNASSIGNED	
36		37		38		39		40		41		42		43	
44		45		46		47		48		49		50		51	
52		53		54		55		56		57		58		59	
60		61		62		63		64		65		66		67	
68		69		70		71		72		73		74		75	
76		77		78		79		80		81		82		83	
84		85		86		87		88		89		90		91	
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100		101		102		103		104		105		106		107	
108		109		110		111		112		113		114		115	
116		117		118		119		120		121		122		123	
124		125		126		127		128		129		130		131	
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148		149		150		151		152		153		154		155	
156		157		158		159		160		161		162		163	
164		165		166		167		168		169		170		171	
172		173		174		175		176		177		178		179	
180		181		182		183		184		185		186		187	
188		189		190		191		192		193		194		195	
196		197		198		199		200		201		202		203	
204		205		206		207		208		209		210		211	
212		213		214		215		216		217		218		219	
220		221		222		223		224		225		226		227	
228		229		230		231		232		233		234		235	
236		237		238		239		240		241		242		243	
244		245		246		247		248		249		250		251	
252		253		254		255		256		257		258		259	
260		261		262		263		264		265		266		267	
268		269		270		271		272		273		274		275	
276		277		278		279		280		281		282		283	
284		285		286		287		288		289		290		291	
292		293		294		295		296		297		298		299	
300		301		302		303		304		305		306		307	
308		309		310		311		312		313		314		315	
316		317		318		319		320		321		322		323	
324		325		326		327		328		329		330		331	
332		333		334		335		336		337		338		339	
340		341		342		343		344		345		346		347	
348		349		350		351		352		353		354		355	
356		357		358		359		360		361		362		363	
364		365		366		367		368		369		370		371	
372		373		374		375		376		377		378		379	
380		381		382		383		384		385		386		387	
388		389		390		391		392		393		394		395	
396		397		398		399		400		401		402		403	
404		405		406		407		408		409		410		411	
412		413		414		415		416		417		418		419	
420		421		422		423		424		425		426		427	
428		429		430		431		432		433		434		435	
436		437		438		439		440		441		442		443	
444		445		446		447		448		449		450		451	
452		453		454		455		456		457		458		459	
460		461		462		463		464		465		466		467	
468		469		470		471		472		473		474		475	
476		477		478		479		480		481		482		483	
484		485		486		487		488		489		490		491	
492		493		494		495		496		497		498		499	
500		501		502		503		504		505		506		507	
508		509		510		511		512		513		514		515	
516		517		518		519		520		521		522		523	
524		525		526		527		528		529		530		531	
532		533		534		535		536		537		538		539	
540		541		542		543		544		545		546		547	
548		549		550		551		552		553		554		555	
556		557		558		559		560		561		562		563	
564		565		566		567		568		569		570		571	
572		573		574		575		576		577		578		579	
580		581		582		583		584		585		586		587	
588		589		590		591		592		593		594		595	
596		597		598		599		600		601		602		603	
604		605		606		607		608		609		610		611	
612		613		614		615		616		617		618		619	
620		621		622		623		624		625		626		627	
628		629		630		631		632		633		634		635	
636		637		638		639		640		641		642		643	
644		645		646		647		648		649		650		651	
652		653		654		655		656		657		658		659	
660		661		662		663		664		665		666		667	
668		669		670		671		672		673		674		675	
676		677		678		679		680		681		682		683	
684		685		686		687		688		689		690		691	
692		693		694		695		696		697		698		699	
700		701		702		703		704		705		706		707	
708		709		710		711		712		713		714		715	
716		717		718		719		720		721		722		723	
724		725		726		727		728		729		730		731	
732		733		734		735		736		737		738		739	
740		741		742		743		744		745		746		747	
748		749		750		751		752		753		754		755	
756		757		758		759		760		761		762		763	
764		765		766		767		768		769		770		771	
772		773		774		775		776		777		778		779	
780		781		782		783		784		785		786		787	
788		789		790		791		792		793		794		795	
796		797		798		799		800		801		802		803	
804		805		806		807		808		809		810		811	
812		813		814		815		816		817		818		819	
820		821		822		823		824		825		826		827	
828		829		830		831		832		833		834		835	
836		837		838		839		840		841		842		843	
844		845		846		847		848		849		850		851	
852		853		854		855		856		857		858		859	
860		861		862		863		864		865		866		867	
868		869		870		871		872		873		874		875	
876		877		878		879		880		881		882		883	
884		885		886		887		888		889		890		891	
892		893		894		895		896		897		898		899	
900		901		902		903		904		905		906		907	
908		909		910		911		912		913		914		915	
916		917		918		919		920		921		922		923	
924		925		926		927		928		929		930		931	
932		933		934		935		936		937		938		939	
940		941		942		943		944		945		946		947	

$$\frac{\sigma_i}{\sigma} = \left\{ \frac{(\Delta V_i)^2}{\sigma^2} + \sum_{n=j-2}^{j+1} (\gamma_n)^2 \left(\frac{\sigma_n}{\sigma} \right)^2 \right\}^{1/2}, \text{ where}$$

σ = Standard deviation of the combined error estimates at standard oceanographic depth,

ΔV_i = the interpolation error estimate of variable "V" at standard oceanographic depth = $^{1/3} (\bar{V}_{i_1} - V_{i_2})$

γ = Interpolation polynomial coefficient.

Z_j = Observed depth.

Z_i = Standard oceanographic depth, such that: $Z_{j-2} < Z_{j-1} < Z_i < Z_j < Z_{j+1}$

The integral part of the fraction $\frac{\sigma_i}{\sigma}$, if ≥ 2 , is reported in this Data Record following the interpolated variable. It represents the combined measurement and interpolation error estimate. In order to distinguish it from an additional decimal digit, it is recorded alphabetically (e.g.: 2 as "B", 3 as "C", etc.).

With respect to the interpolated value of the salinity variable if reported to three decimal digits, the interpolation error estimate is given only when $\frac{\sigma_i}{\sigma} \geq 2$ (the salinity is then recorded to two decimal places). If less than 2, the mean obtained from the two interpolation parabolas is reported to three decimal places.

EXPLANATION OF DATA RECORD HEADINGS

MASTER HEADINGS

(1) C-REF-NO	(6) YR	(11) DEPTH	(16) WAVES 1	(21) AIR T	(26) VIS
(2) CONS. NO	(7) MONTH	(12) MXSAMPD	(17) WAVES 2	(22) WET B	(27) STN
(3) LAT	(8) DAY	(13) NO. DPTH	(18) WND-DIR	(23) WW-CODE	
(4) LON	(9) HR	(14) W-COLOR	(19) WND-FCE	(24) CLD-TPE	
(5) MARSD SQ	(10) C/I	(15) W-TRNSP	(20) BARO	(25) CLD-AMT	(28) HW

- (1) CRUISE REFERENCE NUMBER: Assigned by the Institute. Commences with 001 at the beginning of each year (effective Jan. 1, 1963). Prior to that date the CRN was a number designated by CODC.
- (2) CONSECUTIVE NUMBER: Indicates the chronological order in which the stations were occupied.
- (3) LATITUDE: Indicate the position of the platform at the time of observation.
- (4) LONGITUDE:
- (5) MARSDEN SQUARE: Designates the geographic area code of the observation (see Marsden square chart).
- (6) YEAR:
- (7) MONTH:
- (8) DAY:
- (9) HOUR: The time (Greenwich Mean Time) at which the surface environmental data were recorded. It is reported to tenths of hours (Table 1).
If an "X" precedes the value for HOUR, (prior to Jan. 1, 1963) it indicates that the reported time is doubtful.
- (10) COUNTRY/INSTITUTE: The International Geophysical Year (IGY) Country Code/Institute Code - see Table 11.
- (11) DEPTH: The sounding reported in metres. If corrected, this is stated in the "GENERAL INFORMATION" chapter of section III. Charted depths are preceded by the letter "C".
- (12) MAXIMUM SAMPLING DEPTH: A code to indicate the deepest sampling depth (used for high speed sorting).
00 m - 50 m = 00
51 m - 150 m = 01
151 m - 250 m = 02
etc.

- (13) NUMBER OF DEPTHS: The number of levels observed (this is entered to initiate a computer safety check, guarding against the loss of punch-cards).
- (14) WATER COLOUR: A code based on the percentage of yellow (see table 2 and Note under FIELD "15" below).
- (15) WATER TRANSPARENCY: The depth in metres at which a Secchi disc (white disc, 30 cm. in diameter) just disappears from view, or the optical density expressed in percentage;
- NOTE: The "GENERAL INFORMATION" chapter in section III of the data record will state which method was used.
- (16) WAVES 1
($d_W d_W P_W H_W$ -code): The direction, period and height of the **wind-propagated** wave system. (See Tables 3, 4 and 5). Ref: World Meteorological Organization Codes 0885, 3155, 1555.
- (17) WAVES 2
($d_W d_W P_W H_W$ -code): The direction, period and height of the predominant **non-wind-propagated** wave system. (See Tables 3, 4 and 5). Ref: World Meteorological Organization Codes 0885, 3155, 1555.
- (18) WIND DIRECTION: The true direction to the nearest 10 degrees from which the wind is blowing (wind direction 990 means:—wind variable or direction unknown).
- (19) WIND FORCE (WND-FCE): Beaufort notation (See Table 6).
- WIND SPEED (WND-SPD): Anemometer reading reported in metres per second. Instrument height reported in "GENERAL INFORMATION" chapter of section III.
- (20) BAROMETER: The barometric pressure reported in millibars: the "GENERAL INFORMATION" chapter in Section III of the data record will state the type of instrument used.
- (21) AIR TEMPERATURE: In degrees Celsius.
- (22) WET BULB: In degrees Celsius.
- (23) ww CODE: Present Weather Code (See Table 7). Ref: WMO Code 4677
- (24) CLOUD TYPE: The type of predominating clouds (See Table 8). Ref: WMO Code 0500.
- (25) CLOUD AMOUNT: The sky coverage in eighths (See Table 9) Ref: WMO Code 2700
- (26) VISIBILITY: Visibility at the surface (See Table 10). Ref: WMO Code 4300.
- (27) STATION: A station reference number, assigned by the institute prior to, or during the survey.
- (28) HOURS AFTER HIGH WATER: Indicates the state of the tide for nearshore observations.

OBSERVED DATA HEADINGS

(1) GMT	(2) DEPTH	(3) TEMP	(4) SAL	(5) OXYGEN	(6) SGMT
(7) SOUND	(8) PO_4	(9) -P-	(10) NO_2	(11) NO_3	(12) SiO_2
				(13) pH.	

NOTE: Headings (1) to (7) will always be present. Headings (8) to (13) appear only when one or more additional chemical entries were made.

(1) G.M.T.: The Greenwich Mean Time of (in-situ) thermometer inversion and sea water sample collection.

When a multiple cast was initiated prior to and continued after midnight, the times indicated are uninterrupted by the change of day and appear beyond 24.0 hours. This will be accompanied by a statement: "MULTIPLE CAST CONTINUED NEXT DAY", which is printed following the last level of observed values.

(2) DEPTH: The depth in metres at the reversal time of deepest cast.

(3) TEMPERATURE: Temperatures from deepsea reversing thermometers, read to 0.01° C. Surface temperature measurement procedures are described in the chapter "OBSERVATION PROCEDURES" of section I, and/or the "GENERAL INFORMATION" chapter of section III. An alphabetical character following the temperature value represents the measurement error estimate referred to in the INTRODUCTION to this section.

(4) SALINITY: Salinity as defined by: $S = 0.03 + 1.805 C1\%$, reported in:

- a. 1/100 parts per 1000, or
- b. 1/1000 parts per 1000.

In case a: an alphabetical character following the value is the measurement error estimate as referred to under (3).

In case b: no error estimate indication is provided for, but an additional decimal digit takes its place.

(5) OXYGEN: The concentration of dissolved oxygen expressed in millilitres per litre to 2 decimal places. An alphabetical character following the value is the measurement error estimate as referred to under (3).

(6) SIGMA-T: The specific gravity anomaly as defined by: $(\text{Specific gravity} - 1) \times 10^3$ (e.g., σ_t reported as 2456, reads 24.56, and corresponds to a specific gravity of 1.02456).

(7) SOUND: The sound velocity is reported in m/sec. to 1 decimal place (e.g., 1437.9 m/sec.). The computation is carried out using Wilson's formula (1960), expressed in terms of temperature, salinity and total pressure.

(8) PO_4	Phosphate-Phosphorus reported to hundredths of microgram-atoms per litre.
(9) -P-	Total Phosphorus reported to hundredths of microgram-atoms per litre.
(10) NO_2	Nitrite-Nitrogen reported to hundredths of microgram-atoms per litre — No dissolved nitrogen included —
(11) NO_3	Nitrate-Nitrogen reported to tenths of microgram-atoms per litre.
(12) SiO_4	Silicate-Silicon reported in whole microgram-atoms per litre.
(13) pH	The pH value.

NOTE: "TRC" (trace) is reported when a chemical entry has a value less than the standard deviation of measurement for that particular variable.

INTERPOLATED DATA HEADINGS

(1) DEPTH	(2) TEMP	(3) SAL	(4) OXYGEN	(5) SGMT	(6) SOUND
(7) DELTA-D	(8) POT-EN	(9) SVA.			

- (1) DEPTH: Standard Oceanographic Depth in whole metres, as well as additional depths: 125, 175, 225, 3500, 4500, 5500, 6500, 7500, 8500, 9500.
- (2) TEMPERATURE: Interpolated value at standard depth, followed by the combined measurement and interpolation error estimate (see "INTRODUCTION" to section II of the data record).
- (3) SALINITY:
- A. The reported salinity values are measured to three decimal places.
 - (i) the interpolation error estimate is less than twice the standard deviation of measurement
 - the interpolated value is reported to three decimal places (e.g., 30.139).
 - (ii) the interpolation error estimate is equal to or greater than twice the standard deviation of measurement.
 - the interpolated value is reported to two decimal places, and followed by the interpolation error estimate (e.g., 29.23 C).
 - B. The reported salinity values are measured to two decimal places and followed by the measurement error estimate.
 - the interpolated value is reported to two decimal places, and followed by the combined measurement and interpolation error estimate (e.g., 30.59 B).
- (4) OXYGEN: Interpolated value at standard depth, followed by the combined measurement and interpolation error estimate (see "Introduction" to section II of the data record).

- (5) SIGMA-T: Computed from temperature and salinity values at standard oceanographic depth.
- (6) SOUND VELOCITY: Computed from temperature, salinity and total pressure values at standard oceanographic depth, using Wilson's formula (1960).
- (7) DELTA-D: The geo-potential anomaly as defined by:
- $$\Delta D = \int_0^P \delta dp$$
- ΔD is expressed in dynamic metres (10^5 ergs/gram) and recorded to three decimal places (e.g., 2.345 dyn. metres).
- (8) POTENTIAL ENERGY ANOMALY: The Potential energy anomaly χ as defined by:
- $$\chi = 1/g \int_0^P p \delta dp = \int_0^Z \rho p \delta dz$$
- χ is expressed in units of 10^8 ergs/cm² and recorded to two decimal places (e.g., 116.44).
- (9) SPECIFIC VOLUME ANOMALY: The specific volume anomaly as defined by:
- $$\delta = \alpha - \alpha_{35.0.P}$$
- δ is expressed in ml/gr, and conventionally reported as $10^5 \delta$, to one decimal place (i.e., δ reported as 1234, reads 123.4, and corresponds to a specific volume anomaly of 0.001234 ml/gr.).

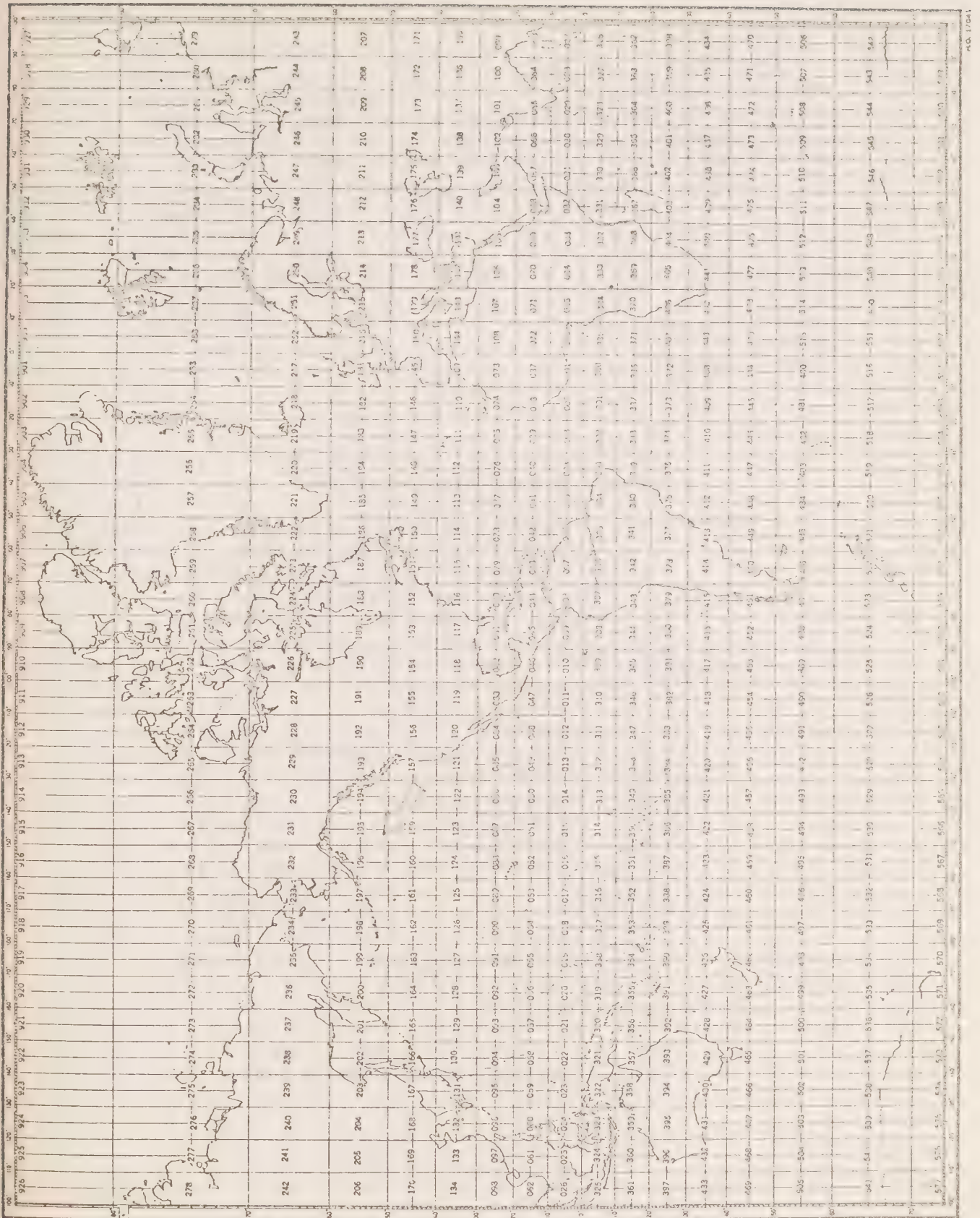


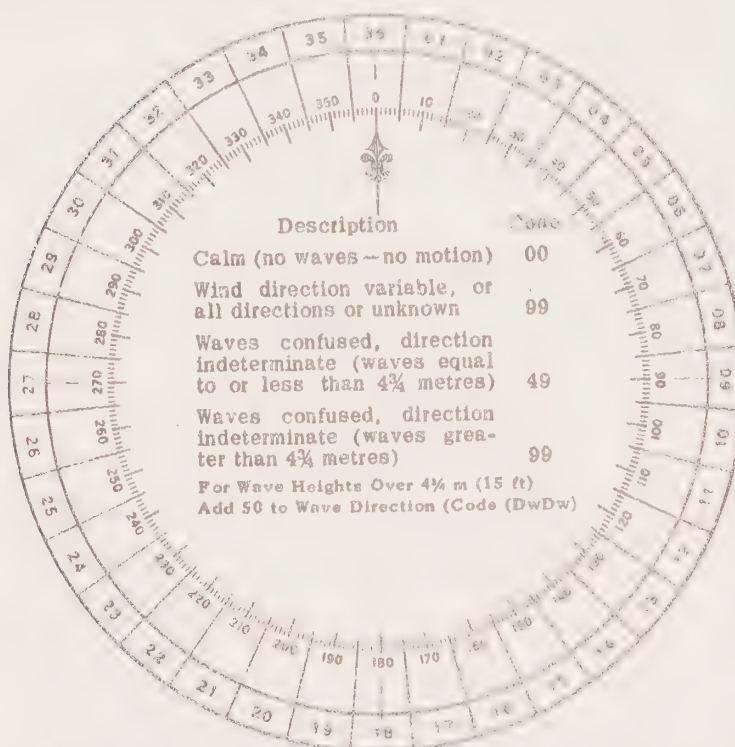
Table 1
CONVERSION
MINUTES TO $\frac{1}{4}$ HRS.

Minutes	Tenths Hrs.
00--03	0
04--08	1
09--15	2
16--20	3
21--27	4
28--32	5
33--39	6
40--44	7
45--51	8
52--56	9
57--59	0 (next HR.)

Table 2
WATER COLOR CODE
Based on Percentage Yellow

Code:	Description
04	Deep Blue
10	Blue
20	Greenish Blue
30	Bluish Green
40	Green
50	Light Green
60	Yellowish Green
70	Yellow Green
80	Green Yellow
90	Greenish Yellow
99	Yellow

Table 3. DIRECTION CODE (dd)



NOTE:

Always use the true direction from which the wind is blowing, or the direction from which Waves I (sea), or Waves II (swell) come.

Table 4. PERIOD OF THE WAVES (Pw)
(Measure to the Nearest Second)

Code:	Period in Seconds:	Code:	Period in Seconds:
2	5 sec. or less	8	16 or 17 sec.
3	6 or 7 sec.	9	18 or 19 sec.
4	8 or 9 sec.	0	20 or 21 sec.
5	10 or 11 sec.	1	Over 21 sec.
6	12 or 13 sec.	X	Calm, or period not determined
7	14 or 15 sec.		

Table 5. HEIGHT OF THE WAVES (Hw)

- The average value of the wave height (vertical distance between trough and crest) is reported, as obtained from the larger well formed waves of the wave system being observed.
- Each code figure provides for reporting a range of heights. For example: 1 = $\frac{1}{4}$ m (1 ft) to $\frac{3}{4}$ m ($2\frac{1}{2}$ ft); 5 = $2\frac{1}{4}$ m (7 ft) to $2\frac{3}{4}$ m (9 ft); 9 = $4\frac{1}{4}$ m ($13\frac{1}{2}$ ft) to $4\frac{3}{4}$ m (15 ft), etc.
- If a wave height comes exactly midway between the heights corresponding to two code figures, the lower code figure is reported; e.g. a height of $2\frac{3}{4}$ m is reported by code figure 5.

Code			Code
0	Less than ¼ m (1 ft)	Add 50 to Dw Dw	0 5 m (16 ft)
1	½ m (1½ ft)		1 5½ m (17½ ft)
2	1 m (3 ft)		2 6 m (19 ft)
3	1½ m (5 ft)		3 6½ m (21 ft)
4	2 m (6½ ft)		4 7 m (22½ ft)
5	2½ m (8 ft)		5 7½ m (24 ft)
6	3 m (9½ ft)		6 8 m (25½ ft)
7	3½ m (11 ft)		7 8½ m (27 ft)
8	4 m (13 ft)		8 9 m (29 ft)
9	4½ m (14 ft)		9 9½ m (30½ ft) or more
x	Height not determined		

Add
50
to
Dw Dw

Table 6. WIND FORCE CODE

The Beaufort force of the wind is estimated from the appearance of the sea surface, according to the table below. This table is only intended as a guide to show roughly what may be expected on the open sea, remote from land. Factors which must be taken into account are the "lag" effect between the wind increasing and the sea getting up; and the influence of "fetch", depth, swell, heavy rain and tide effect on the appearance of the sea. Estimation of the wind force by this method becomes unreliable in shallow water or when close inshore, owing to the tidal effect and the shelter provided by the land.

Code	Appearance of sea if fetch and duration of the blow have been sufficient to develop the sea fully	Description
00	Sea like a mirror	Calm
01	Ripples with the appearance of scales are formed, but without foam crests.	Light Air
02	Small wavelets; crests have a glassy appearance and do not break.	Light Breeze
03	Large wavelets; crests begin to break; foam of glassy appearance; perhaps scattered white horses.	Gentle Breeze
04	Small waves, becoming longer; fairly frequent white horses.	Moderate breeze
05	Moderate waves; many white horses are formed (chance of some spray)	Fresh Breeze
06	Large waves; white foam crests everywhere (probably some spray)	Strong Breeze
07	Sea heaps up and white foam from breaking waves begins to be blown in streaks along the direction of the wind.	Near Gale
08	Moderately high waves; edges of crests begin to break into the spindrift; foam is blown in well-marked streaks along the direction of the wind.	Gale
09	High waves; dense streaks of foam along wind; crests begin to topple, tumble and roll over; spray may affect visibility.	Strong Gale
10	Very high waves with long overhanging crests; foam in great patches blown in dense white streaks along wind; sea surface takes a white appearance; tumbling becomes heavy and shock-like; visibility affected.	Storm
11	Exceptionally high waves (medium sized ships may be lost to view behind waves); sea covered with long white patches of foam lying along the wind; everywhere edges of crests are blown into froth; visibility affected.	Violent Storm
12	Air is filled with foam and spray; sea completely white with driving spray; visibility seriously affected.	Hurricane

Table 7. PRESENT WEATHER

W.W. CODE

NO PRECIPITATION ON STATION AT TIME OF OBSERVATION

Code figure ww			
No meteors except photometers	00	Cloud development not observed or not observable	characteristic change of the state of sky during the past hour
	01	Clouds generally dissolving or becoming less developed	
	02	State of sky on the whole unchanged	
	03	Clouds generally forming or developing	
Haze, dust, sand or smoke	04	Visibility reduced by smoke, e.g. veldt or forest fires, industrial smoke or volcanic ashes	
	05	Haze	
	06	Widespread dust in suspension in the air, not raised by wind at or near the station at the time of observation	
	07	Dust or sand raised by wind at or near the station at the time of observation, but no well developed dust whirl(s) or sand whirl(s), and no duststorm or sandstorm seen	
	08	Well developed dust whirl(s) or sand whirl(s) seen at or near the station during the preceding hour or at the time of observation, but no dustorm or sandstorm	
	09	Duststorm or sandstorm within sight at the time of observation, or at the station during the preceding hour	
	10	Mist	
	11	Patches of	shallow fog or ice fog at the station, whether on land or sea, not deeper than about 2 metres on land or 10 metres at sea
	12	More of less continuous	
	13	Lightning visible, no thunder heard	
	14	Precipitation within sight, not reaching the ground or the surface of the sea	
	15	Precipitation within sight, reaching the ground or the surface of the sea, but distant (i.e. estimated to be more than 5 km) from the station	
	16	Precipitation within sight, reaching the ground or the surface of the sea, near to, but not at the station	
	17	Thunderstorm, but no precepitation at the time of observation	
	18	Squalls	at or within sight of the station during the preceding hour or at the time of observation
	19	Funnel clouds	
ww = 20 - 29			
	20	Precipitation, fog, ice fog or thunderstorm at the station during the preceding hour but not at the time of observation	not falling as shower(s)
	21	Drizzle (not freezing) or snow grains	
	22	Rain (not freezing)	
	23	Snow	
	24	Rain and snow or ice pellets, type (a)	
	25	Freezing drizzle or freezing rain	
	26	Shower(s) of rain	
	27	Shower(s) of snow, or of rain and snow	
	28	Shower(s) of hail, or of rain and hail	
	29	Fog or ice fog	
	29	Thunderstorm (with or without precipitation)	
ww = 30 - 39			
	30	Duststorm, sandstorm, drifting or blowing snow	
	31	Slight or moderate duststorm or sandstorm	-has decreased during the preceding hour -no appreciable change during the preceding hour -has begun or has increased during the preceding hour
	32	Severe duststorm or sandstorm	
	33	Slight or moderate blowing snow	-has decreased during the preceding hour -no appreciable change during the preceding hour -has begun or has increased during the preceding hour
	34	Heavy drifting snow	
	35	Slight or moderate blowing snow	generally low (below eye level) generally high (above eye level)
	36	Heavy blowing snow	
ww = 40 - 49			
	40	Fog or ice fog at the time of observation	
	41	Fog or ice fog at a distance at the time of observation, but not at the station during the preceding hour, the fog or ice fog extending to a level above that of the observer	
	42	Fog or ice fog in patches	
	43	Fog or ice fog, sky visible	has become thinner during the preceding hour
	44	Fog or ice fog, sky invisible	
	45	Fog or ice fog, sky visible	no appreciable change during the preceding hour
	46	Fog or ice fog, sky invisible	
	47	Fog or ice fog, sky visible	has begun or has become thicker during the preceding hour
	48	Fog or ice fog, sky invisible	
	49	Fog, depositing rime, sky visible	
	49	Fog, depositing rime, sky invisible	

PRECIPITATION ON STATION AT TIME OF OBSERVATION

ww = 50 - 59 Drizzle

50	Drizzle, not freezing, intermittent	} slight at time of observation
51	Drizzle, not freezing, continuous	
52	Drizzle, not freezing, intermittent	} moderate at time of observation
53	Drizzle, not freezing, continuous	
54	Drizzle, not freezing, intermittent	} heavy (dense) at time of observation
55	Drizzle, not freezing, continuous	
56	Drizzle, freezing, slight	
57	Drizzle, freezing, moderate or heavy (dense)	
58	Drizzle and rain, slight	
59	Drizzle and rain, moderate or heavy	

ww = 60 - 69 Rain

60	Rain, not freezing, intermittent	} slight at time of observation
61	Rain, not freezing, continuous	
62	Rain, not freezing, intermittent	} moderate at time of observation
63	Rain, not freezing, continuous	
64	Rain, not freezing, intermittent	} heavy at time of observation
65	Rain, not freezing, continuous	
66	Rain, freezing, slight	
67	Rain, freezing, moderate or heavy	
68	Rain or drizzle and snow, slight	
69	Rain or drizzle and snow, moderate or heavy	

70 - 79 Solid precipitation not in showers

70	Intermittent fall of snow flakes	} slight at time of observation
71	Continuous fall of snow flakes	
72	Intermittent fall of snow flakes	} moderate at time of observation
73	Continuous fall of snow flakes	
74	Intermittent fall of snow flakes	} heavy at time of observation
75	Continuous fall of snow flakes	
76	Ice prisms (with or without fog)	
77	Snow grains (with or without fog)	
78	Isolated starlike snow crystals (with or without fog)	
79	Ice pellets, type (a)	

ww = 80 - 99 Showery precipitation, or precipitation with current or recent thunderstorm

80	Rain shower(s), slight	
81	Rain shower(s), moderate or heavy	
82	Rain shower(s), violent	
83	Shower(s) of rain and snow mixed, slight	
84	Shower(s) of rain and snow mixed, moderate or heavy	
85	Snow shower(s), slight	
86	Snow shower(s), moderate or heavy	
87	Shower(s) of snow pellets or ice pellets, type (b), with or without rain	} - slight
88	or rain and snow mixed	
89	Shower(s) of hail, with or without rain or rain and snow mixed, not associated with thunder	} - moderate or heavy
90		
91	Slight rain at time of observation	} thunderstorm during the preceding hour but not at time of observation
92	Moderate or heavy rain at time of observation	
93	Slight snow, or rain and snow mixed or hail at time of observation	
94	Moderate or heavy snow, or rain and snow mixed or hail at time of observation	} thunderstorm at time of observation
95	Thunderstorm, slight or moderate, without hail, but with rain and/or snow at time of observation	
96	Thunderstorm, slight or moderate, with hail at time of observation	
97	Thunderstorm, heavy, without hail, but with rain and/or snow at time of observation	} thunderstorm at time of observation
98	Thunderstorm, combined with duststorm or sandstorm at time of observation	
99	Thunderstorm, heavy, with hail at time of observation	

Table 8. CLOUD TYPE CODE

Code	Cloud Type	Code	Cloud Type
0	Cirrus Ci	5	Nimbostratus Ns
1	Cirrocumulus Cc	6	Stratocumulus Sc
2	Cirrostratus Cs	7	Stratus St
3	Alto cumulus Ac	8	Cumulus Cu
4	Altostratus As	9	Cumulonimbus Cb
X	Cloud not visible owing to darkness, fog, duststorm, sandstorm, or other analogous phenomena		

Table 9. CLOUD AMOUNT CODE

Code	Cloud Cover	Code	Cloud Cover
0	0	6	6 oktas
1	1 okta or less, but not zero	7	7 oktas or more, but not 8 oktas
2	2 oktas	8	8 oktas
3	3 oktas	9	Sky obscured, or cloud amount cannot be estimated
4	4 oktas		
5	5 oktas		

Note: 1 okta = $\frac{1}{8}$ of the sky covered

Table 10. VISIBILITY

Code	Estimate of hor. Visibility
0	Less than 50 metres (less than 55 yards)
1	50-200 metres (approx. 55-220 yards)
2	200-500 metres (approx. 220-550 yards)
3	500-1,000 metres (approx. 550 yards- $\frac{1}{2}$ n.m.)
4	1-2 km (approx. $\frac{3}{4}$ -1 n.m.)
5	2-4 km (approx. 1-2 n.m.)
6	4-10 km (approx. 2-6 n.m.)
7	10-20 km (approx. 6-12 n.m.)
8	20-50 km (approx. 12-30 n.m.)
9	50 km or more (30 n.m. or more)

Note: n.m. = nautical mile

TABLE 11. INSTITUTE CODE

Code	Institute
01	Atlantic Oceanographic Group
02	Pacific Oceanographic Group
03	Biological Station, St. Andrews, N.B.
04	Arctic Biological Station, Ste. Anne de Bellevue, P.Q.
05	Biological Station, St. John's Nfld.
06	Station de Biologie Marine, Grande Riviere, P.Q.
07	Marine Sciences Branch, Central Region
08	Naval Research Establishment, Dartmouth, N.S.
09	Pacific Naval Laboratory, Esquimalt, B.C.
10	Bedford Institute of Oceanography, (MBS, Atlantic Region)
11	Polar Continental Shelf Project
12	Great Lakes Institute
13	Institute of Oceanography, University of British Columbia
14	Institute of Oceanography, Dalhousie University
15	Marine Sciences Branch, Pacific Region
16	Department of Transport
17	Marine Sciences Centre, McGill University
18	RCN East Coast
19	RCN West Coast
20	Ontario Water Resources Commission
21	Dept. of National Health and Welfare
22	Inland Waters Branch, Dept. of Energy, Mines and Resources.

SECTION III

Serial oceanographic data

GENERAL INFORMATION

<u>Institute:</u>	Pacific Oceanographic Group, Nanaimo, B.C.
<u>Observation Platform:</u>	CCGS "St. Catharines"
<u>Vessel's cruising speed:</u>	13 knots
<u>Total number of stations occupied:</u>	21
<u>Anemometer height above sea level:</u>	19 metres
<u>Water transparency:</u>	Secchi Disc.
<u>Barometer readings:</u>	Aneroid Barometer (corrected)
<u>Air temperature:</u>	Sling Psychrometer
<u>Wet bulb temperature:</u>	Sling Psychrometer
<u>Surface sea water temperature:</u>	Bucket sample (deck thermometer)
<u>Depth to bottom:</u>	U.S. Coast and Geodetic Survey Chart 8500

The following Standard Deviations were used to express both measurement and interpolation error estimates:

Temperature	0.02
Salinity	0.003
Oxygen	0.03

C-REF-NO 007 YR 1966 DEPTH C 128 WAVES 1 2521 AIR T 14.7 VIS 7
 CONS. NO 001 MONTH 8 MXSAMPD 01 WAVES 2 2521 WET B 13.0 STN 001
 LAT 48-33 N DAY 05 NO.DPTH 8 WND-DIR 250 WW-CODE 02
 LON 125-33 W HR 23.5 W-COLOR 80 WND-SPD 06 CLD-TPE 2
 MARSD SQ 157 C/I 1802 W-TRNSP 06 BARO 1024.0 CLD-AMT 4 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
235	0000	135 B	31596		2368	14983
235	0010	1075	31557		2416	14889
235	0020	0980	31827		2453	14859
235	0030	0869	32317		2509	14826
235	0050	0767	33201		2593	14801
235	0075	0694	33641		2638	14783
235	0100	0680	33707		2645	14782
235	0125	0681	33715		2645	14787

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1350 B	31596		2368	14983	0000	00000	4221
0010	1075	31557		2416	14889	0040	00002	3765
0020	0980	31827		2453	14859	0076	00007	3415
0030	0869	32317		2509	14826	0108	00015	2886
0050	0767	33201		2593	14801	0158	00035	2088
0075	0694	33641		2638	14783	0205	00065	1667
0100	0680	33707		2645	14782	0246	00102	1603
0125	0681	33715		2645	14787	0287	00148	1602

C-REF-NO 007	YR 1966	DEPTH C	109	WAVES 1	2621	AIR T	17.2	VIS	7
CONS. NO 002	MONTH 8	MXSAMPD	01	WAVES 2	2721	WET B	14.4	STN	002
LAT 48-38 N	DAY 06	NO.DPTH	7	WND-DIR	270	WW-CODE	02		
LON 126-00 W	HR 01.6	W-COLOR	40	WND-SPD	06	CLD-TPE	2		
MARSD SQ 157	C/I 1802	W-TRNSP	06	BARO	1024.0	CLD-AMT	4	HW	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
016	0000	139 B	31391		2345	14994
016	0010	1165	31497		2396	14920
016	0020	0938	32201		2489	14848
016	0030	0840	32545		2531	14818
016	0050	0745	33030		2583	14790
016	0075	0712	33468		2622	14787
016	0100	0690	33843		2654	14788

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1390 B	31391		2345	14994	0000	00000	4448
0010	1165	31497		2396	14920	0042	00002	3961
0020	0938	32201		2489	14848	0078	00007	3073
0030	0840	32545		2531	14818	0106	00015	2675
0050	0745	33030		2583	14790	0155	00034	2186
0075	0712	33468		2622	14787	0206	00066	1819
0100	0690	33843		2654	14788	0248	00103	1515

C-REF-NO 007	YR 1966	DEPTH C 1300	WAVES 1 2621	AIR T 14.9	VIS 8
CONS. NO 003	MONTH 8	MXSAMPD 12	WAVES 2 2721	WET B 12.7	STN 003
LAT 48-42 N	DAY 06	NO.DPTH 19	WND-DIR 270	WW-CODE 02	
LON 126-40 W	HR 04.2	W-COLOR	WND-SPD 06	CLD-TPE 2	
MARSD SQ 157	C/I 1802	W-TRNSP	BARO 1024.0	CLD-AMT 4	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
042	0000	149 B	32016		2372	15034
042	0010	1520	32000		2364	15045
042	0020	1470	31994		2374	15031
042	0030	1247	32352		2447	14963
042	0049	0789	32518		2536	14801
042	0074	0738	32683		2557	14787
042	0099	0741	33235		2600	14800
042	0123	0743	33598		2628	14809
042	0148	0747	33775		2641	14817
042	0173	0704	33874		2655	14806
042	0197	0681	33910		2661	14801
042	0247	0634	33968		2672	14791
042	0296	0595	33994		2679	14784
042	0395	0530	34049		2691	14775
049	0495	0487	34117		2701	14774
049	0594	0452	34191		2711	14777
049	0793	0404	34311		2726	14792
049	0995	0354	34397		2737	14806
049	1195	0309	34457		2747	14821

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1490 B	32016		2372	15034	0000	00000	4188
0010	1520	32000		2364	15045	0042	00002	4264
0020	1470	31994		2374	15031	0085	00009	4169
0030	1247	32352		2447	14963	0123	00018	3480
0050	0780 B	32521		2538	14798	0184	00043	2613
0075	0738	3270 B		2558	14787	0248	00083	2423
0100	0741	33254		2601	14800	0304	00132	2022
0125	0744	33617		2629	14810	0351	00187	1759
0150	0744	33786		2642	14816	0394	00247	1638
0175	0702	33878		2655	14805	0434	00313	1515
0200	0678	33914		2662	14800	0471	00385	1461
0225	0654	33946		2667	14795	0508	00464	1409
0250	0631	33970		2672	14791	0543	00549	1366
0300	0592	33996		2679	14784	0610	00739	1303
0400	0527	34052		2691	14775	0736	01188	1194
0500	0485	34121		2702	14775	0852	01722	1103
0600	0450	34195		2711	14778	0959	02325	1017

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0700	0425	34259		2719	14784	1058	02987	0949
0800	0402	34314		2726	14792	1151	03704	0891
1000	0354	34401		2738	14806	1321	05266	0787
1200	0308	34458		2747	14821	1472	06971	0706

C-REF-NO 007 YR 1966 DEPTH C 2499 WAVES 1 2721 AIR T 15.5 VIS 7
 CONS. NO 004 MONTH 8 MXSAMPD 24 WAVES 2 2721 WET B 13.8 STN 004
 LAT 48-47 N DAY 06 NO.DPTH 22 WND-DIR 270 WW-CODE 02
 LON 127-40 W HR 08.4 W-COLOR WND-SPD 05 CLD-TPE 7
 MARSD SQ 157 C/I 1802 W-TRNSP BARO 1024.0 CLD-AMT 8 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
084	0000	156 B	32139		2366	15058
084	0010	1605	32133		2356	15074
084	0020	1562	32113		2364	15061
084	0030	1321	32481		2442	14989
084	0050	0927	32531		2517	14853
084	0075	0771	32594		2545	14799
084	0099	0735	32841		2569	14792
084	0124	0781	33517		2616	14823
084	0149	0754	33732		2637	14819
084	0174	0724	33866		2651	14814
084	0198	0691	33906		2659	14805
084	0248	0644	33941		2668	14795
084	0298	0600	33971		2676	14786
084	0397	0499	34006		2691	14762
091	0500	0475	34114		2702	14770
091	0600	0445	34207		2713	14776
091	0800	0397	34325		2727	14790
091	1000	0346	34419		2740	14803
091	1200	0310	34453		2746	14822
091	1500	0255	34520		2756	14850
091	1997	0194	34604		2768	14909
091	2396	0176	34635		2772	14969

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1560 B	32139		2366	15058	0000	00000	4243
0010	1605	32133		2356	15074	0043	00002	4346
0020	1562	32113		2364	15061	0086	00009	4272
0030	1321	32481		2442	14989	0126	00019	3523
0050	0927	32531		2517	14853	0189	00044	2817
0075	0771	32594		2545	14799	0257	00087	2549
0100	0737	3287 B		2571	14793	0318	00141	2303
0125	0781	33531		2617	14823	0370	00201	1874
0150	0753	33739		2637	14819	0415	00264	1685
0175	0723	33869		2652	14813	0456	00332	1551
0200	0689	33908		2660	14805	0494	00405	1480
0225	0664	33929		2665	14799	0531	00485	1434
0250	0642	33942		2668	14795	0567	00572	1400
0300	0598	33972		2677	14785	0635	00766	1328

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0400	0498	34009		2691	14762	0762	01219	1191
0500	0475	34114		2702	14770	0878	01750	1096
0600	0445	34207		2713	14776	0984	02347	1002
0700	0420	34273		2721	14783	1082	02999	0934
0800	0397	34325		2727	14790	1173	03704	0877
1000	0346	34419		2740	14803	1339	05231	0765
1200	0310	34453		2746	14822	1489	06920	0712
1500	0255	34520		2756	14850	1691	09710	0617
2000	0194	34602		2768	14909	1977	14799	0508

C-REF-NO 007 YR 1966 DEPTH C 2529 WAVES 1 00X0 AIR T 16.1 VIS 7
 CONS. NO 005 MONTH 8 MXSAMPD 04 WAVES 2 00X0 WET B 14.4 STN 005
 LAT 48-51 N DAY 06 NO.DPTH 14 WND-DIR CALM WW-CODE 02
 LON 128-40 W HR 13.5 W-COLOR 40 WND-SPD 00 CLD-TPE 4
 MARSD SQ 157 C/I 1802 W-TRNSP 15 BARO 1024.0 CLD-AMT 7 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
135	0000	156 B	32073		2361	15057
135	0010	1584	32033		2353	15066
135	0020	1559	32060		2360	15060
135	0030	1472	32115		2383	15034
135	0050	1000	32432		2497	14879
135	0075	0764	32591		2546	14796
135	0099	0718	33029		2587	14788
135	0124	0740	33439		2616	14806
135	0149	0738	33767		2642	14814
135	0174	0702	33859		2654	14805
135	0199	0677	33918		2662	14800
135	0249	0638	33959		2670	14793
135	0298	0593	33997		2679	14784
135	0398	0524	34049		2692	14773

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1560 B	32073		2361	15057	0000	00000	4291
0010	1584	32033		2353	15066	0044	00002	4374
0020	1559	32060		2360	15060	0087	00009	4304
0030	1472	32115		2383	15034	0129	00020	4087
0050	1000	32432		2497	14879	0200	00048	3004
0075	0764	32591		2546	14796	0270	00092	2542
0100	0718	33047		2588	14788	0329	00144	2145
0125	0740	33455		2617	14807	0380	00202	1875
0150	0737	33773		2642	14813	0424	00264	1637
0175	0701	33862		2654	14805	0464	00330	1526
0200	0676	33919		2662	14800	0501	00402	1454
0225	0656	3395 B		2667	14796	0538	00481	1412
0250	0637	33960		2671	14793	0573	00567	1380
0300	0595	33997		2679	14785	0641	00757	1306
0400	0523	34050		2692	14773	0766	01207	1190

C-REF-NO 007 YR 1966 DEPTH C 2929 WAVES 1 1621 AIR T 16.6 VIS 7
 CONS. NO 006 MONTH 8 MXSAMPD 15 WAVES 2 1622 WET B 16.1 STN 006
 LAT 49-02 N DAY 06 NO.DPTH 20 WND-DIR 160 WW-CODE 02
 LON 130-40 W HR 20.2 W-COLOR 20 WND-SPD 04 CLD-TPE 7
 MARSD SQ 158 C/I 1802 W-TRNSP 13 BARO 1024.0 CLD-AMT 8 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
202	0000	157 B	32432		2386	15065
202	0010	1534	32421		2393	15055
202	0020	1302	32441		2443	14981
202	0030	1140	32509		2479	14927
202	0049	0823	32600		2538	14815
202	0074	0706	32626		2557	14774
202	0098	0693	32857		2576	14776
202	0123	0699	33370		2616	14789
202	0148	0687	33606		2636	14791
202	0172	0668	33736		2649	14789
202	0197	0635	33828		2660	14782
202	0246	0589	33865		2669	14772
202	0295	0534	33908		2679	14758
202	0394	0452	33955		2692	14741
208	0498	0427	34047		2702	14749
208	0597	0406	34137		2712	14758
208	0797	0372	34308		2729	14779
208	0998	0336	34385		2738	14798
208	1198	0292 B	34449		2747	14814
208	1498	0248	34526		2757	14846

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1570 B	32432		2386	15065	0000	00000	4050
0010	1534	32421		2393	15055	0040	00002	3985
0050	0814	32600		2539	14812	0170	00039	2601
0075	0704	32631		2557	14773	0233	00080	2433
0020	1302	32441		2443	14981	0078	00008	3514
0030	1140	32509		2479	14927	0112	00016	3175
0100	0693	3290 B		2580	14777	0292	00132	2223
0125	0699	33396		2618	14789	0343	00191	1863
0150	0686	33619		2637	14791	0388	00253	1683
0175	0664	33750		2650	14789	0429	00321	1562
0200	0632	33833		2661	14781	0467	00394	1462
0225	0608	3386 C		2666	14776	0503	00473	1414
0250	0584	33869		2670	14771	0538	00559	1382
0300	0529	33911		2680	14757	0606	00749	1290
0400	0450	33960		2693	14741	0730	01192	1173
0500	0427	34049		2702	14749	0844	01718	1090

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0600	0405	34140		2712	14758	0950	02314	1007
0700	0388	34232		2721	14769	1048	02966	0927
0800	0371	34310		2729	14779	1138	03661	0859
1000	0336	34386		2738	14798	1304	05186	0778
1200	0296 B	34450		2747	14816	1453	06871	0698
1500	0248	34526		2758	14847	1651	09604	0604

C-REF-NO 007	YR 1966	DEPTH C 3275	WAVES 1 1821	AIR T 15.8	VIS 7
CONS. NO 007	MONTH 8	MXSAMPD 04	WAVES 2 2332	WET B 14.9	STN 007
LAT 49-10 N	DAY 07	NO.DPTH 14	WND-DIR 180	WW-CODE 03	
LON 132-40 W	HR 04.4	W-COLOR	WND-SPD 02	CLD-TPE 3	
MARSD SQ 158	C/I 1802	W-TRNSP	BARO 1019.0	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
044	0000	149 B	32408		2402	15039
044	0010	1533	32402		2392	15054
044	0020	1296	32445		2445	14979
044	0030	1058	32526		2495	14898
044	0050	0770	32591		2545	14794
044	0075	0614	32627		2568	14737
044	0100	0583	32676		2576	14730
044	0125	0586	32827		2588	14737
044	0150	0584	33271		2623	14746
044	0175	0573	33597		2650	14750
044	0200	0546	33726		2663	14745
044	0250	0468	33788		2677	14722
044	0300	0442	33827		2683	14720
044	0400	0414	33936		2695	14726

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1490 B	32408		2402	15039	0000	00000	3901
0010	1533	32402		2392	15054	0040	00002	3997
0020	1296	32445		2445	14979	0077	00008	3500
0030	1058	32526		2495	14898	0110	00016	3024
0050	0770	32591		2545	14794	0166	00038	2547
0075	0614	32627		2568	14737	0227	00077	2324
0100	0583	32676		2576	14730	0285	00129	2253
0125	0586	32827		2588	14737	0340	00193	2147
0150	0584	33271		2623	14746	0390	00262	1815
0175	0573	33597		2650	14750	0433	00333	1562
0200	0546	33726		2663	14745	0471	00405	1436
0225	0506 B	3378 C		2672	14733	0506	00482	1356
0250	0468	33788		2677	14722	0539	00564	1307
0300	0442	33827		2683	14720	0604	00746	1254
0400	0414	33936		2695	14726	0725	01179	1151

C-REF-NO 007 YR 1966 DEPTH C 3549 WAVES 1 1823 AIR T 14.9 VIS 5
 CONS. NO 008 MONTH 8 MXSAMPD 04 WAVES 2 1824 WET B 14.9 STN 008
 LAT 49-17 N DAY 07 NO.DPTH 14 WND-DIR 180 WW-CODE 20
 LON 134-40 W HR 11.7 W-COLOR WND-SPD 11 CLD-TPE 7
 MARSD SQ 158 C/I 1802 W-TRNSP BARO 1014.0 CLD-AMT 8 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
117	0000	144 B	32531		2422	15024
117	0010	1479	32519		2413	15038
117	0020	1336	32545		2444	14993
117	0030	1138	32588		2485	14928
117	0050	0775	32639		2548	14797
117	0075	0631	32652		2568	14744
117	0100	0574	32673		2577	14726
117	0125	0542	32740		2586	14718
117	0150	0566	33296		2627	14739
117	0175	0556	33719		2662	14745
117	0200	0530	33773		2669	14739
117	0250	0465	33786		2677	14721
117	0300	0440	33851		2685	14719
117	0400	0398	33957		2698	14720

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1440 B	32531		2422	15024	0000	00000	3710
0010	1479	32519		2413	15038	0038	00002	3800
0020	1336	32545		2444	14993	0074	00008	3502
0030	1138	32588		2485	14928	0108	00016	3113
0050	0775	32639		2548	14797	0164	00039	2518
0075	0631	32652		2568	14744	0225	00077	2326
0100	0574	32673		2577	14726	0283	00129	2245
0125	0542	32740		2586	14718	0338	00193	2161
0150	0566	33296		2627	14739	0388	00262	1775
0175	0556	33719		2662	14745	0428	00329	1450
0200	0530	33773		2669	14739	0464	00398	1383
0225	0496	3378 C		2674	14729	0498	00472	1338
0250	0465	33786		2677	14720	0532	00553	1305
0300	0440	33851		2685	14719	0596	00734	1234
0400	0398	33957		2698	14719	0714	01157	1118

C-REF-NO 007 YR 1966 DEPTH C 3774 WAVES 1 1823 AIR T 15.5 VIS 8
 CONS. NO 009 MONTH 8 MXSAMPD 33 WAVES 2 1823 WET B 12.7 STN 009
 LAT 49-26 N DAY 07 NO.DPTH 24 WND-DIR 180 WW-CODE 10
 LON 136-40 W HR 18.7 W-COLOR 00 WND-SPD 05 CLD-TPE 3
 MARSD SQ 158 C/I 1802 W-TRNSP 14 BARO 1017.0 CLD-AMT 5 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
187	0000	143 B	32394		2414	15019
187	0010	1442	32395		2411	15025
187	0019	1432	32396		2413	15023
187	0029	1077	32465		2487	14904
187	0048	0733	32534		2546	14779
187	0073	0607	32598		2567	14734
187	0097	0525	32732		2587	14706
187	0121	0556	33170		2618	14729
187	0146	0553	33521		2646	14736
187	0170	0498	33629		2661	14719
187	0194	0515	33769		2670	14732
187	0243	0485	33845		2680	14728
187	0292	0472	33918		2687	14732
187	0390	0413	33981		2698	14725
187	0488	0390	34099		2710	14733
187	0586	0377	34187		2719	14745
196	0726	0361	34279		2727	14762
196	0911	0317	34352		2737	14775
196	1095	0283 C	34423		2746	14792
196	1374	0242	34497		2756	14823
196	1846	0198	34589		2767	14884
196	2327	0174	34635		2772	14957
196	2814	0161	34667		2776	15035
196	3303	0153	34685		2778	15117

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1430 B	32394		2414	15019	0000	00000	3791
0010	1442	32395		2411	15025	0038	00002	3816
0020	1402 D	32402		2420	15014	0076	00008	3735
0030	1051	32470		2491	14895	0110	00016	3054
0050	0715 B	32538		2548	14772	0166	00039	2513
0075	0597	32602		2569	14730	0227	00077	2323
0100	0527 B	3278 C		2591	14708	0283	00127	2110
0125	0559	33238		2623	14731	0332	00184	1807
0150	0543 B	3355 B		2650	14733	0375	00243	1562
0175	0499 B	33660		2664	14721	0412	00306	1430
0200	0513	3379 B		2672	14732	0447	00373	1354
0225	0500 B	3383 D		2677	14732	0481	00446	1306

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
0250	0483	33856		2681	14729	0513	00525	1272
0300	0467	33924		2688	14732	0576	00701	1209
0400	0410	33992		2700	14725	0693	01118	1104
0500	0388	34111		2711	14734	0799	01607	1001
0600	0376	34198		2720	14746	0897	02157	0931
0700	0364	34265		2726	14759	0988	02766	0877
0800	0344	34312		2732	14768	1074	03430	0828
1000	0300 B	34388		2742	14783	1232	04886	0736
1200	0266 B	34454		2750	14803	1374	06482	0662
1500	0228	34526		2759	14838	1563	09094	0581
2000	0189	34607		2769	14907	1837	13986	0498
2500	0168	34648		2774	14984	2081	19630	0460
3000	0156	34676		2777	15066	2311	26150	0440

C-REF-NO 007 YR 1966 DEPTH C 3889 WAVES 1 9934 AIR T 13.6 VIS 6
 CONS. NO 010 MONTH 8 MXSAMPD 03 WAVES 2 9944 WET B 10.9 STN C10
 LAT 49-34 N DAY 08 NO.DPTH 14 WND-DIR 240 WW-CODE 02
 LON 138-40 W HR 03.9 W-COLOR WND-SPD 15 CLD-TPE 6
 MARSD SQ 158 C/I 1802 W-TRNSP BARO 1013.0 CLD-AMT 8 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
039	0000	136 B	32558		2441	14996
039	0008	1431	32520		2423	15023
039	0017	1433	32520		2423	15025
039	0026	1187	32550		2473	14944
039	0043	0720	32582		2551	14774
039	0065	0631	32611		2565	14742
039	0086	0545	32689		2582	14712
039	0108	0542	33001		2607	14718
039	0130	0541	33321		2632	14726
039	0151	0497	33508		2652	14714
039	0173	0443	33635		2668	14697
039	0217	0402	33760		2682	14688
039	0262	0458	33902		2687	14721
039	0350	0413	33989		2699	14718

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1360 B	32558		2441	14998	0000	00000	3533
0010	1446 C	32517		2420	15028	0037	00002	3735
0020	1365 E	32529		2437	15003	0073	00008	3569
0030	1062 E	32559		2497	14900	0106	00016	3005
0050	0660 I	32589		2560	14751	0161	00038	2405
0075	0585 B	3263 B		2572	14726	0220	00075	2286
0100	0538 B	3287 C		2597	14714	0274	00124	2054
0125	0543	3325 B		2626	14725	0323	00179	1778
0150	0500	33501		2651	14715	0364	00238	1546
0175	0439	33642		2669	14695	0401	00299	1378
0200	0407	3372 C		2678	14687	0435	00363	1287
0225	0410 B	33787		2683	14694	0467	00433	1243
0250	0441 C	33867		2686	14712	0498	00508	1218
0300	0415 I	3395 D		2695	14710	0557	00676	1137

C-REF-NO 007	YR 1966	DEPTH C 4220	WAVES 1 2022	AIR T 13.3	VIS 5
CONS. NO 011	MONTH 8	MXSAMPD 41	WAVES 2 2023	WET B 13.3	STN 301
LAT 49-57 N	DAY 10	NO.DPTH 26	WND-DIR 200	WW-CODE 05	
LON 144-52 W	HR 19.5	W-COLOR 30	WND-SPD 06	CLD-TPE 7	
MARSD SQ 159	C/I 1802	W-TRNSP 14	BARO 1023.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
195	0000	122 B	32551	619	2467	14951
195	0010	1231	32575	632	2467	14957
195	0020	1224	32588	644	2469	14956
195	0030	0962	32653	704	2521	14865
195	0050	0643	32707	714	2571	14746
195	0075	0522	32729	687 B	2587	14701
195	0100	0455	32759	691 B	2597	14678
195	0125	0464	33241	564	2634	14692
195	0150	0445	33543	465	2660	14692
195	0175	0423	33668	404	2673	14689
195	0200	0408	33745	347	2680	14688
195	0250	0364	33788	263	2688	14678
195	0300	0355	33875	176	2696	14684
195	0400	0349	33999	117	2706	14699
195	0500	0357	34133	084	2716	14721
195	0600	0346	34216	076	2724	14734
207	0800	0309	34329	076	2736	14753
207	1000	0288	34402	066 B	2744	14778
207	1200	0261	34441	083 B	2750	14801
207	1500	0232 B	34517	082	2758	14840
207	2000	0196	34585	140 B	2766	14910
238	2448	0175	34625	205	2771	14978
238	2944	0160	34652	267	2775	15057
238	3438	0153	34674	304	2777	15141
238	3934	0151	34697	322	2779	15227
238	4132		34690	328		

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1220 B	32551	619	2467	14951	0000	00000	3278
0010	1231	32575	632	2467	14957	0033	00002	3282
0020	1224	32588	644	2469	14956	0066	00007	3262
0030	0962	32653	704	2521	14865	0096	00014	2777
0050	0643	32707	714	2571	14746	0147	00035	2296
0075	0522	32729	687 B	2587	14701	0203	00070	2142
0100	0455	32759	691 B	2597	14678	0256	00118	2050
0125	0464	33241	564	2634	14692	0303	00171	1700
0150	0445	33543	465	2660	14692	0343	00227	1456
0175	0423	33668	404	2673	14689	0378	00286	1342

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0200	0408	33745	347	2680	14688	0411	00349	1271
0225	0385	3377 C	303	2685	14683	0443	00418	1228
0250	0364	33788	263	2688	14678	0473	00492	1198
0300	0355	33875	176	2696	14684	0532	00657	1128
0400	0349	33999	117	2706	14699	0641	01048	1036
0500	0357	34133	084	2716	14721	0741	01510	0952
0600	0346	34216	076	2724	14734	0834	02033	0886
0700	0328	34279	075	2731	14744	0921	02609	0827
0800	0309	34329	076	2736	14753	1002	03234	0777
1000	0288	34402	066 B	2744	14778	1152	04623	0713
1200	0261	34441	083 B	2750	14801	1292	06200	0666
1500	0232 B	34517	082	2758	14840	1484	08846	0593
2000	0196	34585	140 B	2766	14910	1767	13916	0523
2500	0173	34628	212	2772	14986	2023	19824	0481
3000	0159	34655	272	2775	15067	2262	26624	0459
3500	0152	34678	307	2777	15151	2494	34401	0446
4000		34692	325					

C-REF-NO 007 YR 1966 DEPTH C 4220 WAVES 1 2643 AIR T 12.7 VIS 8
 CONS. NO 012 MONTH 8 MXSAMPD 04 WAVES 2 26X2 WET B 11.6 STN 302
 LAT 50-01 N DAY 16 NO.DPTH 14 WND-DIR 260 WW-CODE 01
 LON 144-56 W HR 19.4 W-COLOR 30 WND-SPD 06 CLD-TPE 7
 MARSD SQ 195 C/I 1802 W-TRNSP 14 BARO 1026.0 CLD-AMT 7 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
194	0000	117 B	32568	626 B	2478	14934
194	0010	1214	32533	631	2467	14950
194	0020	1214	32570	633	2470	14952
194	0030	0902	32667	701	2531	14843
194	0050	0651	32726	722 B	2572	14749
194	0075	0565	32736	691	2583	14719
194	0100	0491	32767	693	2594	14693
194	0125	0492	33062	621	2617	14701
194	0150	0480	33477	514	2651	14706
194	0175	0418	33610	416	2669	14686
194	0200	0393	33688	355	2677	14681
194	0250	0364	33750	273	2685	14678
194	0300	0351	33802	224	2690	14681
194	0400	0350	33950	135	2702	14699

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1170 B	32568	626 B	2478	14934	0000	00000	3177
0010	1214	32533	631	2467	14950	0032	00002	3283
0020	1214	32570	633	2470	14952	0065	00007	3258
0030	0902	32667	701	2531	14843	0095	00014	2675
0050	0651	32726	722 B	2572	14749	0145	00034	2292
0075	0565	32736	691	2583	14719	0201	00070	2185
0100	0491	32767	693	2594	14693	0255	00118	2082
0125	0492	33062	621	2617	14701	0305	00175	1864
0150	0480	33477	514	2651	14706	0348	00235	1543
0175	0418	33610	416	2669	14686	0385	00296	1380
0200	0393	33688	355	2677	14681	0418	00361	1298
0225	0376	3373 B	309	2682	14678	0451	00431	1253
0250	0364	33750	273	2685	14678	0482	00507	1227
0300	0351	33802	224	2690	14681	0542	00678	1179
0400	0350	33950	135	2702	14699	0656	01084	1074

C-REF-NO 007 YR 1966 DEPTH C 4220 WAVES 1 3322 AIR T 12.7 VIS 7
 CONS. NO 013 MONTH 8 MXSAMPD 20 WAVES 2 3222 WET B 11.1 STN 303
 LAT 49-57 N DAY 19 NO.DPTH 21 WND-DIR 330 WW-CODE 02
 LON 144-56 W HR 18.9 W-COLOR 30 WND-SPD 08 CLD-TPE 5
 MARSD SQ 159 C/I 1802 W-TRNSP 12 BARO 1024.0 CLD-AMT 6 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
189	0000	117 B	32465	634	2470	14932
189	0010	1223	32530	634	2465	14953
189	0020	1223	32558	636	2467	14956
189	0030	1222	32535	634	2466	14956
189	0050	0670	32733	726 B	2570	14757
189	0075	0580	32773	690	2584	14726
189	0100	0525	32790	689	2592	14707
189	0125	0471	32873	671	2605	14690
189	0150	0478	33475	508	2651	14705
189	0175	0420	33655	410	2672	14688
189	0200	0388	33713	349	2680	14679
189	0250	0365	33777	263	2687	14678
189	0300	0348	33859	201	2695	14681
189	0400	0352	34015	121	2707	14701
196	0485	0352	34074	091 B	2712	14716
196	0584	0350	34227	091 B	2724	14733
196	0782	0322	34314	076	2734	14755
196	0981	0291	34378	074	2742	14776
196	1180	0266	34429	064	2748	14799
196	1478	0232	34494	076	2756	14836
196	1972	0196	34615	140	2769	14905

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1170 B	32465	634	2470	14932	0000	00000	3253
0010	1223	32530	634	2465	14953	0033	00002	3301
0020	1225	32558	636	2467	14956	0066	00007	3286
0030	1222	32535	634	2466	14956	0099	00015	3300
0050	0670	32733	726 B	2570	14757	0156	00037	2310
0075	0580	32773	690	2584	14725	0212	00073	2174
0100	0525	32790	689	2592	14707	0266	00121	2102
0125	0471	32873	671	2605	14690	0317	00181	1984
0150	0478	33475	508	2651	14705	0362	00243	1542
0175	0420	33655	410	2672	14688	0398	00303	1348
0200	0388	33713	349	2680	14679	0431	00366	1274
0225	0373	3375 B	302	2684	14677	0463	00435	1235
0250	0365	33777	263	2687	14678	0494	00510	1207
0300	0348	33859	201	2695	14680	0553	00677	1133
0400	0352	34015	121	2707	14701	0662	01066	1027

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0500	0352	34097	090 B	2714	14718	0763	01531	0974
0600	0348	34240	090 B	2726	14735	0856	02055	0871
0700	0336	3430 D	083	2731	14747	0941	02626	0822
0800	0319	34321	076	2735	14757	1023	03255	0794
1000	0288	34383	073	2743	14778	1177	04674	0727
1200	0264	34433	064	2749	14802	1319	06276	0674
1500	0231	34503	075	2757	14839	1513	08959	0602
2000	0195	34622	146	2769	14910	1791	13914	0494

C-REF-NO 007 YR 1966 DEPTH C 4220 WAVES 1 0221 AIR T 14.4 VIS 5
 CONS. NO 014 MONTH 8 MXSAMPD 04 WAVES 2 2721 WET B 13.3 STN 304
 LAT 49-58 N DAY 24 NO.DPTH 14 WND-DIR 030 WW-CODE 02
 LON 145-02 W HR 19.0 W-COLOR 30 WND-SPD 05 CLD-TPE 5
 MARSD SQ 159 C/I 1802 W-TRNSP 17 BARO 1027.0 CLD-AMT 6 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
190	0000	126 B	32448	619	2452	14963
190	0010	1264	32570	624	2460	14968
190	0020	1251	32587	628	2464	14965
190	0030	1248	32591	630	2465	14966
190	0050	0639	32724	718 B	2573	14745
190	0075	0518	32709	693	2586	14699
190	0100	0459	32790	690	2599	14680
190	0125	0488	33213	583	2630	14702
190	0150	0465	33523	484	2657	14701
190	0175	0444	33655	417	2669	14698
190	0200	0395	33691	355	2677	14682
190	0250	0358	33805	268	2690	14676
190	0300	0344	33820	192	2693	14678
190	0400	0355	33976	126	2704	14702

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1260 B	32448	619	2452	14963	0000	00000	3426
0010	1264	32570	624	2460	14968	0034	00002	3346
0020	1251	32587	628	2464	14965	0068	00007	3312
0030	1248	32591	630	2465	14966	0101	00015	3306
0050	0639	32724	718 B	2573	14745	0157	00037	2279
0075	0518	32709	693	2586	14699	0213	00073	2152
0100	0459	32790	690	2599	14680	0265	00120	2031
0125	0488	33213	583	2630	14702	0313	00174	1747
0150	0465	33523	484	2657	14701	0354	00231	1492
0175	0444	33655	417	2669	14698	0390	00291	1373
0200	0395	33691	355	2677	14682	0423	00356	1298
0225	0370 B	3375 B	308	2685	14676	0455	00426	1230
0250	0358	33805	268	2690	14676	0486	00500	1180
0300	0344	33820	192	2693	14678	0545	00666	1158
0400	0355	33976	126	2704	14702	0657	01066	1060

C-REF-NO 007	YR 1966	DEPTH C 4220	WAVES 1 3522	AIR T 12.7	VIS 6
CONS. NO 015	MONTH 8	MXSAMPD 18	WAVES 2 3521	WET B 11.6	STN 305
LAT 49-48 N	DAY 26	NO.DPTH 21	WND-DIR 350	WW-CODE 02	
LON 145-00 W	HR 19.0	W-COLOR 30	WND-SPD 05	CLD-TPE 5	
MARSD SQ 159	C/I 1802	W-TRNSP 12	BARO 1027.0	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
190	0000	120 B	32561	623	2472	14944
190	0008	1250	32568	626	2463	14963
190	0017	1252	32599	623	2465	14965
190	0026	1249	32555	626	2462	14965
190	0043	0773	32713	721 B	2554	14796
190	0065	0621	32723	692	2575	14740
190	0086	0530	32747	679	2588	14707
190	0108	0478	32890	658	2605	14691
190	0130	0495	33196	583	2627	14705
190	0151	0460	33508	489	2656	14698
190	0173	0427	33624	420	2669	14690
190	0216	0387	33715	323	2680	14681
190	0260	0356	33773	256	2688	14676
190	0350	0343	33962	152	2704	14688
198	0430	0348	33987	109	2705	14704
198	0520	0344 B	34107	072 B	2715	14719
198	0698	0335	34256	067	2728	14746
198	0876	0305	34330	072 B	2737	14764
198	1055	0280	34400	063 B	2745	14784
198	1322	0247	34465	076	2753	14816
198	1778	0207	34562	110	2764	14876

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1200 B	32561	623	2472	14944	0000	00000	3235
0010	1253	32577	625	2463	14964	0033	00002	3321
0020	1261 C	3258 B	622	2462	14969	0066	00007	3333
0030	1151 I	3258 E	648 B	2483	14932	0099	00015	3138
0050	0693 H	3273 C	720 C	2566	14766	0154	00037	2344
0075	0572	3273 B	685	2581	14722	0211	00073	2200
0100	0490	32822	669	2598	14693	0265	00121	2040
0125	0491 B	3312 B	603	2622	14702	0313	00177	1820
0150	0462	33495	493	2655	14699	0355	00235	1510
0175	0425	33631	415	2669	14689	0391	00296	1371
0200	0399	3369 B	354	2677	14684	0425	00360	1300
0225	0380	33727	308	2682	14680	0457	00431	1257
0250	0362	33760	269	2686	14677	0489	00507	1217
0300	0345	3386 D	203	2696	14679	0548	00673	1128
0400	0346	3398 C	122	2705	14698	0657	01065	1046

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0500	0345 B	34077	079 B	2713	14715	0760	01537	0981
0600	0341 B	34186	064 B	2722	14732	0855	02073	0903
0700	0335	34257	067	2728	14746	0944	02664	0851
0800	0319	34303	070	2733	14757	1027	03309	0806
1000	0287	34380	066 B	2742	14778	1183	04739	0728
1200	0261	34439	068	2749	14801	1324	06335	0668
1500	0229	3452 B	081 B	2758	14839	1516	08982	0591

C-REF-NO 007 YR 1966 DEPTH C 4220 WAVES 1 3222 AIR T 12.7 VIS 7
 CONS. NO 016 MONTH 8 MXSAMPD 04 WAVES 2 3122 WET B 09.9 STN 306
 LAT 50-02 N DAY 29 NO.DPTH 14 WND-DIR 320 WW-CODE C2
 LON 144-57 W HR 19.4 W-COLOR 30 WND-SPD 08 CLD-TPE 8
 MARSD SQ 195 C/I 1802 W-TRNSP 14 BARO 1019.0 CLD-AMT 7 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
194	0000	118 B	32557	626	2475	14937
194	0010	1238	32527	628	2462	14958
194	0020	1236	32533	628	2463	14959
194	0030	1236	32516	627	2462	14961
194	0050	0699 B	32714	723 B	2564	14768
194	0075	0533	32717	689	2585	14706
194	0100	0476	32725	687	2592	14686
194	0125	0434	32992	637	2618	14676
194	0150	0442	33577	449	2663	14692
194	0175	0413	33675	380	2674	14685
194	0200	0385	33705	329	2679	14678
194	0250	0358	33765	262	2687	14675
194	0300	0342	33847	201	2695	14678
194	0400	0350	33962	123	2703	14699

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1180 B	32557	626	2475	14937	0000	00000	3202
0010	1238	32527	628	2462	14958	0033	00002	3330
0020	1236	32533	628	2463	14959	0066	00007	3325
0030	1236	32516	627	2462	14961	0100	00015	3339
0050	0699 B	32714	723 B	2564	14768	0157	00038	2361
0075	0533	32717	689	2585	14706	0214	00074	2163
0100	0476	32725	687	2592	14686	0268	00122	2098
0125	0434	32992	637	2618	14676	0317	00179	1856
0150	0442	33577	449	2663	14692	0359	00237	1427
0175	0413	33675	380	2674	14685	0393	00294	1326
0200	0385	33705	329	2679	14678	0426	00358	1277
0225	0368	33734	292	2683	14675	0458	00427	1242
0250	0358	33765	262	2687	14675	0489	00502	1210
0300	0342	33847	201	2695	14678	0548	00669	1136
0400	0350	33962	123	2703	14699	0659	01066	1065

C-REF-NO 007	YR 1966	DEPTH C 4220	WAVES 1 2621	AIR T 12.7	VIS 7
CONS. NO 017	MONTH 8	MXSAMPD 41	WAVES 2 2622	WET B 11.1	STN 307
LAT 49-57 N	DAY 31	NO.DPTH 26	WND-DIR 250	WW-CODE 01	
LON 144-55 W	HR 19.5	W-COLOR 30	WND-SPD 08	CLD-TPE 2	
MARSD SQ 159	C/I 1802	W-TRNSP 16	BARO 1016.0	CLD-AMT 4	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
195	0000	121 B	32596	624	2473	14948
195	0010	1226	32533	629	2465	14954
195	0020	1225	32544	627	2466	14956
195	0030	1223	32547	626	2466	14957
195	0050	0662	32764	744 B	2573	14754
195	0075	0509	32708	685	2587	14696
195	0100	0464	32787	679	2598	14682
195	0125	0485	33314	549	2638	14702
195	0150	0437	33548	448	2662	14689
195	0175	0414	33680	382	2675	14685
195	0200	0395	33707	341	2679	14682
195	0250	0363	33761	276 B	2686	14677
195	0300	0346	33826	200	2693	14679
195	0400	0353	33957	136	2703	14700
195	0500	0347	34076	087	2713	14716
195	0600	0344	34183	070	2721	14733
207	0786	0320	34302	070	2733	14755
207	0983	0290		082 B		
207	1180	0261	34442	073	2750	14797
207	1474	0246		080		
207	1966	0195	34587	138	2767	14904
207	2459	0175	34624	201	2771	14980
207	2954	0160	34669	258	2776	15059
207	3452	0153	34674	300	2777	15143
207	3951	0152	34683	317	2778	15230
207	4150	0151 B	34684	317	2778	15265

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1210 B	32596	624	2473	14948	0000	00000	3227
0010	1226	32533	629	2465	14954	0033	00002	3304
0020	1225	32544	627	2466	14956	0066	00007	3297
0030	1223	32547	626	2466	14957	0099	00015	3293
0050	0662	32764	744 B	2573	14754	0155	00037	2277
0075	0509	32708	685	2587	14696	0211	00073	2143
0100	0464	32787	679	2598	14682	0263	00120	2039
0125	0485	33314	549	2638	14702	0310	00173	1668
0150	0437	33548	448	2662	14689	0349	00228	1444
0175	0414	33680	382	2675	14685	0384	00286	1323

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0200	0395	33707	341	2679	14682	0417	00349	1286
0225	0378	33733	308	2682	14679	0449	00419	1251
0250	0363	33761	276 B	2686	14677	0480	00495	1218
0300	0346	33826	200	2693	14679	0540	00663	1156
0400	0353	33957	136	2703	14700	0652	01065	1072
0500	0347	34076	087	2713	14716	0756	01543	0984
0600	0344	34183	070	2721	14733	0852	02081	0908
0700	0333	34256	067	2728	14746	0941	02673	0850
0800	0318	34309	071	2734	14757	1024	03316	0801
1000	0287	3439 B	081 B	2743	14778	1178	04734	0720
1200	0260	34447	073	2750	14800	1318	06311	0660
1500	0243	34518	082	2757	14845	1510	08974	0605
2000	0193	34590	142	2767	14909	1795	14053	0515
2500	0174	34628	206	2772	14986	2049	19926	0481
3000	0159	34670	263	2776	15067	2286	26645	0448
3500	0153	34675	303	2777	15152	2515	34369	0450
4000	0151	34682	317	2778	15239	2747	43394	0456

C-REF-NO 007 YR 1966 DEPTH C 4220 WAVES 1 3221 AIR T 11.6 VIS 7
 CONS. NO 018 MONTH 9 MXSAMPD 04 WAVES 2 3221 WET B 08.8 STN 308
 LAT 49-59 N DAY 05 NO.DPTH 14 WND-DIR 320 WW-CODE 02
 LON 144-57 W HR 18.8 W-COLOR 00 WND-SPD 05 CLD-TPE 3
 MARSD SQ 159 C/I 1802 W-TRNSP 13 BARO 1021.0 CLD-AMT 3 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
188	0000	116 B	32579	626	2481	14930
188	0010	1211	32535	625	2468	14949
188	0020	1208	32541	625	2469	14950
188	0030	1208	32553	626	2470	14952
188	0049	0995 B	32607	667	2512	14879
188	0074	0531	32761	683	2589	14705
188	0098	0470	32786	687	2598	14684
188	0123	0396	32880	687	2613	14659
188	0148	0432	33406	494	2651	14685
188	0172	0394	33587	401	2669	14675
188	0197	0392	33692	354	2678	14680
188	0246	0353	33755	263	2687	14672
188	0295	0344	33824	197	2693	14678
188	0394	0350	33966	124	2704	14698

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1160 B	32579	626	2481	14930	0000	00000	3151
0010	1211	32535	625	2468	14949	0032	00002	3276
0020	1208	32541	625	2469	14950	0065	00007	3268
0030	1208	32553	626	2470	14952	0098	00015	3262
0050	0975 C	32614	668	2515	14872	0159	00040	2829
0075	0525 B	32763	683	2590	14703	0222	00079	2120
0100	0462	3278 B	691	2598	14681	0274	00125	2039
0125	0398	3292 C	673 B	2616	14660	0323	00182	1874
0150	0430	33429	484	2653	14684	0366	00242	1526
0175	0393	33603	394	2671	14676	0402	00302	1360
0200	0390	33698	348	2678	14680	0436	00366	1287
0225	0371 B	3374 C	300	2684	14676	0468	00436	1240
0250	0352	33761	257	2687	14672	0498	00511	1207
0300	0337 B	33830	190	2694	14676	0558	00678	1145
0400	0353	33975	123	2704	14701	0669	01075	1058

C-REF-NO 007	YR 1966	DEPTH C 4220	WAVES 1 3021	AIR T 11.6	VIS 5
CONS. NO 019	MONTH 9	MXSAMPD 20	WAVES 2 3021	WET B 10.5	STN 309
LAT 50-01 N	DAY 07	NO.DPTH 21	WND-DIR 300	WW-CODE 02	
LON 145-00 W	HR 18.9	W-COLOR 10	WND-SPD 03	CLD-TPE 6	
MARSD SQ 195	C/I 1802	W-TRNSP 14	BARO 1006.0	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
189	0000	117 B	32538	624	2476	14933
189	0010	1210	32543	624	2469	14949
189	0020	1212	32544	624	2468	14951
189	0030	1211	32542	623	2468	14952
189	0049	0662	32760	725 B	2573	14754
189	0074	0517	32722	689	2588	14699
189	0098	0427	32769	698	2601	14666
189	0123	0419	33068	615	2625	14671
189	0147	0415	33517	441	2661	14679
189	0172	0390	33653	367	2675	14674
189	0197	0375	33742	319	2683	14673
189	0246	0349	33768	242	2688	14671
189	0295	0344	33858	175	2696	14678
189	0393	0349	34007	118	2707	14698
196	0499	0347	34104	082 B	2715	14716
196	0599	0340	34200	064 B	2723	14731
196	0798	0317	34313	076 B	2734	14756
196	0998	0287	34378	070	2742	14777
196	1198	0260	34454	074	2751	14800
196	1495	0229	34509	083	2758	14837
196	1977	0193	34612	146	2769	14905

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1170 B	32538	624	2476	14933	0000	00000	3199
0010	1210	32543	624	2469	14949	0033	00002	3268
0020	1212	32544	624	2468	14951	0065	00007	3273
0030	1211	32542	623	2468	14952	0098	00015	3275
0050	0649 B	32761	725 B	2575	14749	0154	00037	2263
0075	0512	32721	690	2588	14697	0209	00072	2137
0100	0425	32785	695	2602	14666	0261	00119	2000
0125	0419	3311 B	600	2629	14672	0309	00173	1753
0150	0412	3354 B	429	2664	14679	0349	00229	1422
0175	0388	33666	360	2676	14674	0383	00286	1307
0200	0373	33745	314	2684	14673	0415	00347	1235
0225	0359	3377 D	273	2687	14671	0446	00415	1208
0250	0348	33774	236	2689	14671	0476	00488	1193
0300	0344	33867	171	2696	14679	0535	00653	1123
0400	0349	34014	115	2708	14700	0643	01040	1025

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0500	0347	34105	082 B	2715	14716	0743	01502	0962
0600	0340	34201	064 B	2723	14731	0837	02030	0891
0700	0330	34267	067 B	2729	14744	0924	02612	0838
0800	0317	34314	076 B	2734	14756	1007	03248	0796
1000	0287	34379	070	2742	14778	1161	04670	0728
1200	0260	34454	074	2751	14800	1301	06249	0655
1500	0228	3453 D	087	2759	14838	1469	08848	0582
2000	0192	34615	150	2769	14908	1763	13732	0496

C-REF-NO 007	YR 1966	DEPTH C 4220	WAVES 1 2023	AIR T 13.3	VIS 5
CONS. NO 020	MONTH 9	MXSAMPD 04	WAVES 2 4923	WET B 12.7	STN 310
LAT 50-00 N	DAY 12	NO.DPTH 14	WND-DIR 200	HW-CODE 01	
LON 145-01 W	HR 19.4	W-COLOR 10	WND-SPD 05	CLD-TPE 8	
MARSD SQ 195	C/I 1802	W-TRNSP 15	BARO 1007.0	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
194	0000	124 B	32514	619	2461	14957
194	0010	1214	32545	621	2468	14950
194	0020	1208	32549	621	2469	14950
194	0029	1204	32555	621	2471	14950
194	0049	0730	32725	711 B	2561	14780
194	0073	0589	32751	678	2581	14729
194	0098	0506		685		
194	0123	0498	33034	617	2614	14703
194	0147	0462	33467	493	2653	14698
194	0172	0404	33669	370	2675	14681
194	0196	0377	33718	316	2681	14674
194	0245	0346	33776	237	2689	14669
194	0294	0340	33843	179	2695	14676
194	0392	0346	33995	116	2706	14697

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1240 B	32514	619	2461	14957	0000	00000	3341
0010	1214	32545	621	2468	14950	0033	00002	3274
0020	1208	32549	621	2469	14950	0066	00007	3262
0030	1184 D	32563	625	2475	14943	0099	00015	3212
0050	0719 B	32727	711 B	2563	14776	0155	00037	2377
0075	0580	32751	679	2582	14725	0212	00074	2190
0100	0505	3283 G	682	2598	14699	0266	00121	2047
0125	0496	3307 B	608	2617	14703	0315	00178	1862
0150	0455	33502	476	2656	14696	0357	00237	1497
0175	0400	33679	361	2676	14679	0393	00296	1309
0200	0373	33724	308	2682	14673	0425	00358	1252
0225	0355	33755	265	2686	14670	0456	00425	1212
0250	0345	33782	230	2690	14670	0486	00499	1184
0300	0334 B	33851	172	2696	14675	0544	00663	1126
0400	0349	34009	114	2707	14700	0653	01051	1029

C-REF-NO 007 YR 1966 DEPTH C 4220 WAVES 1 1222 AIR T 12.2 VIS 5
 CONS. NO 021 MONTH 9 MXSAMPD 41 WAVES 2 1222 WET B 11.1 STN 311
 LAT 50-00 N DAY 13 NO.DPTH 26 WND-DIR 120 WW-CODE 03
 LON 145-03 W HR 19.0 W-COLOR 10 WND-SPD 08 CLD-TPE 1
 MARSD SQ 195 C/I 1802 W-TRNSP 16 BARO 1004.0 CLD-AMT 7 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
190	0000	117 B	32572	626	2478	14934
190	0010	1208	32545	628	2469	14948
190	0020	1195	32567	626	2473	14946
190	0030	1192	32580	627	2475	14946
190	0049	0706	32708	723 B	2563	14771
190	0074	0584	32749	687	2582	14727
190	0098	0498	32797	687	2596	14696
190	0123	0470	32893	654	2606	14690
190	0148	0426	33301	523	2643	14681
190	0173	0423	33616	412	2668	14688
190	0197	0395	33728	346	2680	14682
190	0246	0357	33809	257	2690	14675
190	0295	0344	33834	193	2694	14678
190	0394	0343	33943	139 B	2702	14695
190	0493	0346	34082	086 B	2713	14715
190	0593	0340	34197	076 B	2723	14730
200	0756	0320	34292	058 B	2732	14750
200	0948	0298	34371	069 B	2741	14774
200	1142	0268	34426	082 B	2748	14794
200	1434	0235 B	34500	084 B	2756	14830
200	1919	0198	34583	127	2766	14897
200	2404	0176	34629	198	2771	14971
200	2890	0162	34649	250	2774	15049
200	3376	0154	34674	302	2777	15130
200	3867	0151	34674	323	2777	15215
200	4066	0151 B	34676	330	2777	15250

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	1170 B	32572	626	2478	14934	0000	00000	3174
0010	1208	32545	628	2469	14948	0032	00002	3263
0020	1195	32567	626	2473	14946	0065	00007	3226
0030	1192	32580	627	2475	14946	0097	00015	3213
0050	0695 B	32711	723 B	2565	14767	0153	00037	2359
0075	0580	32750	687	2582	14725	0211	00073	2191
0100	0495	32798	687	2596	14695	0264	00121	2063
0125	0466	3292 B	645	2609	14689	0315	00179	1942
0150	0425	33332	513	2646	14681	0359	00242	1594
0175	0421	33630	405	2670	14688	0396	00303	1368

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EM	SVA
0200	0392	33727	339	2681	14681	0430	00367	1261
0225	0370	3379 B	290	2688	14677	0461	00435	1201
0250	0355	33812	251	2691	14675	0491	00507	1172
0300	0343	33838	189	2694	14678	0549	00672	1144
0400	0343	33951	135 B	2703	14696	0660	01071	1066
0500	0346	34091	085 B	2714	14716	0763	01544	971
0600	0339	34203	075 B	2723	14731	0857	02073	0889
0700	0328	34267	063 B	2730	14743	0944	02654	0835
0800	0315	34313	059 B	2734	14755	1027	03289	0795
1000	0290	34387	073 B	2743	14779	1181	04708	0726
1200	0261	34442	083 B	2750	14801	1322	06297	0665
1500	0229 B	34514	088 B	2758	14838	1513	08939	0592
2000	0194	34593	139	2767	14909	1794	13957	0514
2500	0173	34634	209	2772	14986	2046	19790	0476
3000	0160	34656	263	2775	15067	2285	26566	0459
3500	0153	34675	309	2777	15152	2517	34381	0450
4000	0151 B	34676	329	2777	15239	2750	43446	0460

SECTION IV

Bathythermograms

EXPLANATION OF DATA HEADINGS IN TABLES 1 & 2

CON No: The consecutive BT slide number.

LAT:) Deg
) Min
LONG:) Position of platform at time of BT lowering.

DATE: Day Day
 Mon Month
 Yr Year

GMT: Hrs The Greenwich Mean Time at which the BT lowering
 Min was made.

DEPTH: Fms Depth to bottom in fathoms, as read from U.S.
 Chart Coast and Geodetic Survey Chart 8500.

BAR: Mbs Barometric pressure; prefix all listed
 values by 10, or by 9 if a minus (-) sign
 is present to obtain the pressure in whole
 millibars.

eg. 02 = 1002 mbs
 17 = 1017 mbs
 -98 = 998 mbs
 -86 = 986 mbs

WW Code: Refer to Table 7, Section II.

WIND Amt: Wind speed in meters per second.

W-1:) P
) Waves 1 and 2. Refer to Tables 4&5, Section II.
W-2:) H

CLOUD: T Refer to Tables 8&9, Section II.
 A

CCGS "ST. CATHARINES" P-66-3

BATHYTHERMOGRAMS

TABLE 1

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
001	48	33	125	33	05	08	66	23	12	0128	24	02	12	21	21	2	4		
002	48	38	126	00	06	08	66	01	18	0110	24	02	12	21	21	2	4		
003	48	42	126	40	06	08	66	03	50	1300	24	02	12	21	21	2	4		
004	48	47	127	40	06	08	66	08	00	2500	24	02	10	21	21	7	8		
005	48	51	128	40	06	08	66	13	46	2529	24	03	00	XX	XX	4	7		
006	48	55	129	40	06	08	66	16	30	2601	24	02	03	XX	XX	4	7		
007	49	02	130	40	06	08	66	19	52	2930	24	02	04	21	21	7	8		
008	49	04	131	40	07	08	66	00	32	2875	21	02	05	21	22	3	5		
009	49	10	132	40	07	08	66	04	00	3275	19	03	05	21	32	3	6		
010	49	13	133	40	07	08	66	07	15	3200	19	80	05	21	22	5	9		
011	49	17	134	40	07	08	66	11	00	3550	14	20	05	23	24	7	8		
012	49	22	133	40	07	08	66	14	40	3200	15	02	15	23	34	6	6		
013	49	26	136	40	07	08	66	18	02	3775	15	01	10	21	22	3	5		
014	49	31	137	40	07	08	66	23	30	3850	16	03	25	23	24	6	8		
015	49	34	138	40	08	08	66	03	24	3890	13	02	31	34	44	6	8		
016	49	41	140	40	08	08	66	12	00	3881	09	02	30	24	44	6	8		
017	49	45	141	40	08	08	66	16	25	3970	10	18	32	34	44	9	4		
018	49	49	142	40	08	08	66	20	38	3910	11	18	30	34	44	7	8		
019	49	54	143	40	09	08	66	02	30	4042	16	02	18	23	33	6	8		
020	50	02	144	52	09	08	66	12	00	4221	13	51	28	35	XX	7	8		
021	49	58	144	58	09	08	66	15	00	4221	14	51	29	36	44	7	8		
022	49	55	145	05	09	08	66	18	00	4221	14	61	26	36	44	7	8		
023	49	49	145	17	09	08	66	21	00	4221	16	61	21	36	44	7	8		
024	49	50	145	20	10	08	66	00	00	4221	17	61	13	35	35	7	8		
025	49	56	145	05	10	08	66	03	00	4221	19	16	08	23	56	6	8		

TABLE I

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Aml	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
026	49	58	144	55	10	08	66	06	00	4221	20	02	04	X0		44		6	8
027	49	58	144	52	10	08	66	09	00	4221	21	61	05	X0		XX		7	8
028	50	03	144	53	10	08	66	12	00	4221	21	61	06	20		XX		7	8
029	49	58	144	57	10	08	66	15	00	4221	21	51	08	21		34		7	8
030	49	58	144	53	10	08	66	18	00	4221	21	20	10	42		53		7	8
031	50	01	144	59	10	08	66	21	00	4221	21	02	15	42		42		7	8
032	49	57	144	52	11	08	66	00	00	4221	20	10	23	44		42		7	8
033	50	02	144	47	11	08	66	03	00	4221	18	61	16	33		32		7	8
034	50	04	144	42	11	08	66	06	00	4221	17	61	17	33		32		7	8
035	50	02	144	55	11	08	66	09	00	4221	17	51	25	34		XX		7	8
036	50	00	144	51	11	08	66	12	00	4221	16	51	19	34		XX		7	8
037	49	58	144	52	11	08	66	15	00	4221	16	10	18	34		33		7	8
038	49	57	144	53	11	08	66	18	00	4221	17	02	23	34		44		7	8
039	49	58	144	56	11	08	66	21	00	4221	17	10	23	34		44		7	8
040	50	01	144	51	12	08	66	00	00	4221	16	02	18	25		24		7	8
041	49	58	144	56	12	08	66	03	00	4221	16	61	18	25		34		7	8
042	49	55	145	08	12	08	66	06	00	4221	15	61	12	34		XX		7	8
043	49	59	145	01	12	08	66	09	00	4221	13	10	12	33		XX		7	8
044	49	54	145	05	12	08	66	12	00	4221	12	10	15	33		XX		7	8
045	49	57	144	58	12	08	66	15	00	4221	12	10	22	34		XX		7	8
046	49	58	144	50	12	08	66	18	00	4221	13	02	18	25		34		7	8
047	50	05	144	47	12	08	66	21	00	4221	15	02	18	34		33		7	8
048	50	02	144	51	13	08	66	00	00	4221	16	01	19	34		33		6	4
049	49	53	144	50	13	08	66	03	00	4221	15	61	14	33		34		6	8
050	49	57	144	46	13	08	66	06	00	4221	14	61	16	33		34		7	8

TABLE 1

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Aml	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
051	50	00	144	43	13	08	66	09	00	4221	13	61	20	34	XX			7	8
052	49	49	144	36	13	08	66	12	00	4221	12	51	26	35	XX			7	8
053	49	55	144	52	13	08	66	15	00	4221	12	58	27	35	XX			7	8
054	49	55	145	02	13	08	66	18	00	4221	10	21	26	35	44			7	8
055	49	53	145	14	13	08	66	21	00	4221	11	02	26	45	35			7	8
056	49	53	145	26	14	08	66	00	00	4221	11	02	24	46	35			6	7
057	50	00	145	04	14	08	66	03	00	4221	12	02	26	27	35			6	8
058	50	03	144	48	14	08	66	06	00	4221	12	81	33	37	XX			6	7
059	50	00	145	02	14	08	66	09	00	4221	12	02	37	38	XX			6	8
060	49	52	145	02	14	08	66	12	00	4221	13	20	33	39	XX			6	8
061	49	51	145	13	14	08	66	15	00	4221	14	02	33	39	XX			6	8
062	49	50	145	17	14	08	66	18	00	4221	14	50	33	39	XX			6	7
063	49	52	145	27	14	08	66	21	00	4221	16	50	30	39	XX			6	7
064	49	56	145	38	15	08	66	00	00	4221	17	01	26	39	XX			8	5
065	49	56	145	06	15	08	66	03	00	4221	17	02	18	39	XX			6	7
066	50	00	144	48	15	08	66	06	00	4221	17	02	23	37	XX			6	8
067	50	00	144	52	15	08	66	09	00	4221	18	02	29	38	XX			6	8
068	49	57	145	03	15	08	66	12	00	4221	17	25	25	37	XX			6	8
069	50	56	145	08	15	08	66	15	00	4221	18	81	27	47	45			6	8
070	49	58	145	18	15	08	66	18	00	4221	18	02	24	47	45			6	8
071	49	57	145	08	15	08	66	21	00	4221	19	02	24	46	44			6	6
072	49	57	144	53	16	08	66	00	00	4221	20	02	24	26	34			6	8
073	49	57	145	03	16	08	66	03	00	4221	21	02	24	25	34			6	7
074	49	57	145	10	16	08	66	06	00	4221	22	02	20	35	34			6	6
075	49	56	145	23	16	08	66	09	00	4221	23	02	17	35	XX			6	7

TABLE 1

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
076	49	54	145	30	16	08	66	12	00	4221	23	61	19	34	XX			6	8
077	49	58	145	03	16	08	66	15	00	4221	24	15	14	32		34		6	8
078	50	01	145	02	16	08	66	18	00	4221	24	15	11	34		33		6	8
079	49	57	144	57	16	08	66	21	00	4221	25	02	11	21		23		6	7
080	49	58	144	53	17	08	66	00	00	4221	26	02	05	23		21		6	6
081	49	58	144	51	17	08	66	03	00	4221									
082	49	59	144	49	17	08	66	06	00	4221	28	02	05	21		32		8	5
083	49	58	144	48	17	08	66	09	00	4221	29	02	06	21	XX			8	3
084	49	57	144	46	17	08	66	12	00	4221	30	02	03	20	XX			8	2
085	50	00	144	55	17	08	66	15	00	4221	31	03	03	X0		32		8	7
086	50	00	144	55	17	08	66	18	00	4221	31	02	06	X0		32		8	6
087	49	56	144	55	17	08	66	21	00	4221	31	02	13	21		32		8	7
088	49	58	144	53	18	08	66	00	00	4221	30	02	18	22	XX			4	8
089	50	02	144	54	18	08	66	03	00	4221	28	02	18	22		32		6	8
090	50	10	144	54	18	08	66	06	00	4221	28	60	19	23		32		7	8
091	50	12	144	50	18	08	66	09	00	4221	27	60	18	23	XX			7	8
092	50	10	144	52	18	08	66	12	00	4221	25	10	27	35	XX			7	8
093	50	02	144	53	18	08	66	15	00	4221	25	45	23	35	XX			X	9
094	49	59	144	53	18	08	66	18	00	4221	24	45	22	24		23		X	9
095	49	58	144	53	18	08	66	21	00	4221	24	60	20	24		23		6	8
096	50	05	144	58	19	08	66	00	00	4221	22	60	20	35		23		7	8
097	50	05	144	55	19	08	66	03	00	4221	22	60	16	35		23		X	9
098	50	07	144	54	19	08	66	06	00	4221	22	45	13	34		23		X	9
099	50	12	144	49	19	08	66	09	00	4221	22	45	12	33	XX			X	9
100	50	07	144	51	19	08	66	12	00	4221	22	45	09	XX		XX		X	9

TABLE 1

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Aml	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
101	50	00	144	58	19	08	66	15	00	4221	24	02	16	34	33	7	8		
102	49	57	144	56	19	08	66	18	00	4221	25	02	16	34	33	7	8		
103	49	58	144	54	19	08	66	21	00	4221	27	02	16	33	33	6	8		
104	49	58	144	52	20	08	66	00	00	4221	27	02	08	33	33	6	6		
105	49	55	144	50	20	08	66	03	00	4221	28	02	10	33	42	6	7		
106	49	54	144	52	20	08	66	06	00	4221	29	02	09	22	42	3	8		
107	49	58	144	51	20	08	66	09	00	4221	29	02	08	22	XX	6	8		
108	49	56	144	48	20	08	66	12	00	4221	29	02	09	22	XX	6	8		
109	49	55	144	57	20	08	66	15	00	4221	30	02	07	21	32	8	3		
110	49	54	144	56	20	08	66	18	00	4221	31	02	06	21	X0	8	2		
111	49	50	144	56	20	08	66	21	00	4221	32	02	06	X0	22	8	2		
112	49	53	144	52	21	08	66	00	00	4221	31	02	09	X0	22	0	6		
113	49	54	144	47	21	08	66	03	00	4221	31	02	12	22	32	4	7		
114	49	54	144	45	21	08	66	06	00	4221	31	01	12	22	32	4	4		
115	50	02	145	00	21	08	66	09	00	4221	30	02	16	23	XX	6	3		
116	50	04	144	59	21	08	66	12	00	4221	28	02	17	23	XX	6	5		
117	50	02	144	54	21	08	66	15	00	4221	27	02	16	23	32	6	8		
118	50	03	144	51	21	08	66	18	00	4221	26	02	16	23	32	6	8		
119	50	04	144	48	21	08	66	21	00	4221	25	02	21	34	33	6	8		
120	50	07	144	47	22	08	66	00	00	4221	22	02	24	24	33	4	8		
121	50	01	144	52	22	08	66	03	00	4221	21	02	28	26	23	7	8		
122	50	02	144	55	22	08	66	06	00	4221	21	10	31	37	XX	7	8		
123	50	02	144	59	22	08	66	09	00	4221	21	10	27	37	XX	7	8		
124	49	59	145	02	22	08	66	12	00	4221	21	10	29	37	XX	7	8		
125	49	56	145	02	22	08	66	15	00	4221	20	02	28	36	XX	6	7		

TABLE 1

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Aml	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
126	50	00	145	00	22	08	66	18	00	4221	20	45	24	26	56			X	9
127	50	00	144	56	22	08	66	21	00	4221	21	02	24	26	56			7	8
128	50	04	144	51	23	08	66	00	00	4221	20	02	22	36	56			7	8
129	50	05	144	46	23	08	66	03	00	4221	20	45	22	36	45			X	9
130	50	07	144	45	23	08	66	06	00	4221	21	43	24	36	45			X	9
131	50	10	144	42	23	08	66	09	00	4221	21	45	23	36	XX			X	9
132	50	14	144	40	23	08	66	12	00	4221	22	51	25	36	XX			X	9
133	50	04	144	48	23	08	66	15	00	4221	23	51	23	36	44			X	9
134	50	00	144	53	23	08	66	18	00	4221	23	51	17	36	44			X	9
136	50	05	144	52	24	08	66	00	00	4221	25	61	03	X0	35			6	7
137	50	05	144	52	24	08	66	03	00	4221	25	02	04	X0	35			6	8
138	50	06	144	49	24	08	66	06	00	4221	25	58	06	21	35			7	8
139	50	03	144	55	24	08	66	09	00	4221	25	58	07	21	XX			7	8
140	50	00	145	00	24	08	66	12	00	4221	25	51	10	21	XX			7	8
141	50	00	145	00	24	08	66	15	00	4221	25	10	10	21	43			7	8
142	49	57	145	02	24	08	66	18	00	4221	25	10	12	21	43			7	8
143	49	58	145	01	24	08	66	21	00	4221	25	02	09	21	43			7	8
144	49	56	144	59	25	08	66	00	00	4221	25	02	11	21	43			7	8
145	49	54	145	03	25	08	66	03	00	4221	24	02	12	21	43			6	6
146	49	56	145	04	25	08	66	06	00	4221	24	58	11	22	43			7	5
147	50	01	145	05	25	08	66	09	00	4221	23	21	16	23	XX			7	8
148	50	02	145	07	25	08	66	12	00	4221	22	61	15	23	XX			7	8
149	49	57	145	10	25	08	66	15	00	4221	20	51	16	23	43			7	8
150	50	00	145	04	25	08	66	18	00	4221	21	51	24	34	43			7	8
151	49	56	145	02	25	08	66	21	00	4221	20	20	22	34	43			6	6

TABLE 1

CON No	LAT		LONG		DATE			GMT		DEPTH fms Chart	BAR Mbs	WW Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	I	A
152	49	57	145	05	26	08	66	00	00	4221	20	61	20	24	33	7	7		
153	50	01	145	09	26	08	66	03	00	4221	20	80	17	23	23	6	8		
154	49	52	145	12	26	08	66	06	00	4221	21	02	13	23	33	6	8		
155	49	50	145	18	26	08	66	09	00	4221	21	02	21	34	XX	6	8		
156	49	49	145	08	26	08	66	12	00	4221	22	25	18	33	XX	6	8		
157	50	01	145	03	26	08	66	15	00	4221	23	02	21	34	XX	8	2		
158	49	59	145	01	26	08	66	18	00	4221	24	02	20	24	23	6	7		
159	49	56	144	57	26	08	66	21	00	4221	25	02	15	33	33	6	8		
160	49	51	144	56	27	08	66	00	00	4221	25	02	17	34	33	6	8		
161	49	58	145	00	27	08	66	03	00	4221	25	80	18	34	33	6	8		
162	49	56	145	00	27	08	66	06	00	4221	25	02	15	33	33	6	8		
163	49	50	144	58	27	08	66	09	00	4221	25	02	17	33	XX	6	8		
164	49	45	144	55	27	08	66	12	00	4221	25	02	16	33	XX	6	8		
165	50	01	145	00	27	08	66	15	00	4221	25	02	14	33	43	6	8		
166	50	01	144	58	27	08	66	18	00	4221	25	02	13	33	43	6	8		
167	49	57	144	57	27	08	66	21	00	4221	25	02	09	21	33	6	8		
168	49	54	144	52	28	08	66	00	00	4221	24	02	09	21	33	6	7		
169	49	54	144	53	28	08	66	03	00	4221	23	02	10	21	33	4	8		
170	50	00	144	47	28	08	66	06	00	4221	22	02	09	21	XX	6	8		
171	50	01	145	00	28	08	66	09	00	4221	21	03	14	22	XX	6	8		
172	49	51	144	59	28	08	66	12	00	4221	18	10	14	22	XX	7	8		
173	50	01	144	58	28	08	66	15	00	4221	17	02	10	22	33	6	8		
174	50	04	144	53	28	08	66	18	00	4221	15	61	14	22	33	7	8		
175	50	03	144	45	28	08	66	21	00	4221	16	02	20	23	23	6	8		
176	49	58	144	43	29	08	66	00	00	4221	17	02	22	34	33	6	8		

TABLE 1

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Aml	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
177	49	59	144	56	29	08	66	03	00	4221	18	02	19	33	34	8	7		
178	50	00	145	00	29	08	66	06	00	4221	17	02	16	33	34	6	8		
179	50	03	144	55	29	08	66	09	00	4221	17	02	17	33	XX	6	6		
180	49	56	144	51	29	08	66	12	00	4221	16	02	16	33	XX	6	8		
181	49	58	144	58	29	08	66	15	00	4221	17	02	14	33	45	6	7		
182	50	01	144	53	29	08	66	18	00	4221	17	15	14	33	45	6	8		
183	49	58	144	47	29	08	66	21	00	4221	18	02	09	33	44	6	8		
184	49	59	144	42	30	08	66	00	00	4221	18	02	14	33	44	6	8		
185	49	57	144	50	30	08	66	03	00	4221	17	02	07	44	43	6	7		
186	49	57	145	04	30	08	66	06	00	4221	17	02	11	33	44	6	8		
187	50	00	145	01	30	08	66	09	00	4221	15	02	13	22	XX	8	8		
188	49	57	144	59	30	08	66	12	00	4221	13	02	15	22	XX	6	8		
189	50	03	145	00	30	08	66	15	00	4221	09	10	23	23	33	7	8		
190	50	06	144	56	30	08	66	18	00	4221	08	10	22	23	23	7	8		
191	50	04	144	54	30	08	66	21	00	4221	08	10	22	33	33	7	8		
192	50	00	144	56	31	08	66	00	00	4221	10	02	25	35	32	7	8		
193	50	03	144	12	31	08	66	03	00	4221	11	02	25	36	33	6	7		
194	49	58	144	22	31	08	66	06	00	4221	12	02	16	35	33	6	6		
195	49	58	145	01	31	08	66	09	00	4221	13	02	15	34	XX	6	4		
196	49	56	144	53	31	08	66	12	00	4221	13	02	16	33	34	6	7		
197	49	58	144	45	31	08	66	15	00	4221	13	02	13	33	33	6	6		
198	49	58	144	50	31	08	66	18	00	4221	14	02	19	34	33	8	7		
199	49	58	144	52	31	08	66	21	00	4221	16	02	18	34	33	8	7		
200	49	59	144	51	01	09	66	00	00	4221	17	02	17	34	33	3	5		
201	49	58	144	56	01	09	66	03	00	4221	18	02	14	33	33	3	7		

TABLE 1

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
202	49	56	144	52	01	09	66	06	00	4221	19	02	10	33	33	3	7		
203	49	57	144	55	01	09	66	09	00	4221	19	02	13	33	XX	3	7		
204	49	59	144	56	01	09	66	12	00	4221	19	02	09	22	33	6	6		
205	50	01	145	00	01	09	66	15	00	4221	19	15	11	22	33	8	8		
206	50	03	144	56	01	09	66	18	00	4221	19	02	11	22	33	2	7		
207	50	00	144	52	01	09	66	21	00	4221	20	02	12	22	33	6	6		
208	50	02	144	48	02	09	66	00	00	4221	20	02	08	22	33	6	7		
209	49	58	144	57	02	09	66	03	00	4221	20	02	08	21	33	3	7		
210	50	00	145	00	02	09	66	06	00	4221	20	02	06	21	33	6	8		
211	49	56	144	54	02	09	66	09	00	4221	20	02	05	X0	33	6	8		
212	49	58	144	54	02	09	66	12	00	4221	18	23	08	X0	33	6	8		
213	50	00	144	56	02	09	66	15	00	4221	16	61	07	X0	42	7	8		
214	50	00	145	00	02	09	66	18	00	4221	13	51	16	22	43	7	8		
214	50	09	145	04	03	09	66	03	00	4221	01	10	31	37	45	7	8		
215	50	05	145	05	02	09	66	21	00	4221	08	10	30	25	43	7	8		
216	50	05	145	08	03	09	66	00	00	4221	03	20	26	35	34	7	8		
218	50	01	145	04	03	09	66	06	00	4221	00	51	27	37	XX	7	8		
219	50	02	145	05	03	09	66	09	00	4221	03	02	19	25	XX	7	8		
220	50	01	145	14	03	09	66	12	00	4221	04	61	16	25	XX	7	8		
221	50	01	145	05	03	09	66	15	00	4221	02	02	16	33	45	6	8		
222	49	59	145	02	03	09	66	18	00	4221	02	25	16	33	35	8	7		
223	50	02	144	54	03	09	66	21	00	4221	01	25	22	35	34	8	7		
224	49	57	144	49	04	09	66	00	00	4221	02	02	30	36	35	9	4		
225	49	57	144	46	04	09	66	03	00	4221	06	15	34	38	35	9	7		
226	49	54	144	57	04	09	66	06	00	4221	11	02	33	39	35	9	3		

TABLE 1

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Amf	W 1		W 2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
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228	49	59	145	10	04	09	66	12	00	4221	16	02	28	38	XX			8	5
229	50	02	144	58	04	09	66	15	00	4221	18	02	22	38		45		8	3
230	50	01	144	47	04	09	66	18	00	4221	19	02	24	38		45		6	3
231	50	02	144	58	04	09	66	21	00	4221	20	02	24	38		45		6	4
232	50	03	145	05	04	09	66	00	00	4221	19	15	18	36		45		8	7
233	50	10	145	12	05	09	66	03	00	4221	19	25	20	36		45		8	7
234	50	15	145	17	05	09	66	06	00	4221	19	02	18	36		44		6	6
235	50	05	145	08	05	09	66	09	00	4221	19	02	10	34		34		6	8
236	50	00	144	59	05	09	66	12	00	4221	18	25	13	34	XX			8	5
237	49	57	144	57	05	09	66	15	00	4221	18	02	12	33		34		6	8
238	50	00	145	00	05	09	66	18	00	4221	18	02	12	33		34		3	6
239	49	59	144	55	05	09	66	21	00	4221	19	02	14	33		45		6	7
240	49	54	144	54	06	09	66	00	00	4221	19	02	13	33		44		6	7
241	49	54	144	55	06	09	66	03	00	4221	19	02	12	33		44		8	3
242	49	56	144	50	06	09	66	06	00	4221	20	02	10	33	XX			8	4
243	49	53	144	49	06	09	66	09	00	4221	19	02	14	33	XX			6	5
244	49	59	144	54	06	09	66	12	00	4221	18	02	13	33	XX			6	8
245	49	57	144	48	06	09	66	15	00	4221	17	15	18	23		33		8	8
246	49	59	144	58	06	09	66	18	00	4221	17	02	17	23		44		6	7
247	49	54	144	56	06	09	66	21	00	4221	15	02	11	23		44		6	7
248	49	56	144	53	07	09	66	00	00	4221	13	15	15	23		44		8	8
249	49	57	144	50	07	09	66	03	00	4221	11	61	15	23		44		7	8
250	49	58	144	43	07	09	66	06	00	4221	09	61	16	23		43		7	8
251	50	03	144	49	07	09	66	09	00	4221	07	61	19	23		43		7	8

TABLE 1

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Amt	W 1		W 2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
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253	50	01	144	58	07	09	66	15	00	4221	05	02	15	22	43	6	8		
254	50	01	145	00	07	09	66	18	00	4221	03	61	14	33	32	6	8		
255	49	56	144	55	07	09	66	21	00	4221	03	16	16	33	33	8	8		
256	49	56	144	51	08	09	66	00	00	4221	01	02	16	33	33	6	7		
257	50	01	144	59	08	09	66	03	00	4221	00	02	16	34	33	8	7		
258	50	00	144	52	08	09	66	06	00	4221	01	02	20	34	33	8	7		
259	50	03	144	50	08	09	66	09	00	4221	02	02	20	34	33	8	8		
260	49	55	144	58	08	09	66	12	00	4221	02	02	28	34	33	8	7		
261	49	52	144	59	08	09	66	15	00	4221	02	15	22	24	33	8	6		
262	50	00	144	53	08	09	66	18	00	4221	02	25	30	38	33	8	8		
263	50	01	145	03	08	09	66	21	00	4221	04	15	33	39	34	8	8		
264	50	02	145	12	09	09	66	00	00	4221	05	15	36	49	XX	8	7		
265	50	04	145	22	09	09	66	03	00	4221	06	80	30	49	XX	8	8		
266	50	05	145	30	09	09	66	06	00	4221	09	02	28	48	XX	8	8		
267	50	05	145	25	09	09	66	09	00	4221	11	01	27	37	XX	8	4		
268	49	57	145	08	09	09	66	12	00	4221	12	02	26	37	XX	8	2		
269	50	01	144	58	09	09	66	15	00	4221	14	02	27	36	45	6	2		
270	50	00	145	00	09	09	66	18	00	4221	16	02	25	35	45	6	7		
271	49	55	144	58	09	09	66	21	00	4221	18	02	20	35	45	6	7		
272	50	03	144	57	10	09	66	00	00	4221	18	02	18	35	45	8	7		
273	49	58	145	02	10	09	66	03	00	4221	18	15	20	35	44	8	8		
274	50	00	145	01	10	09	66	06	00	4221	19	02	13	34	44	8	7		
275	49	58	144	54	10	09	66	09	00	4221	19	01	13	34	44	6	3		
276	49	57	144	51	10	09	66	12	00	4221	19	02	14	34	44	6	3		

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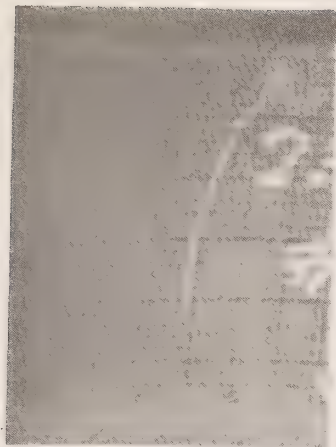
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	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
277	49	55	145	00	10	09	66	15	00	4221	19	03	10	32		31		6	6
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279	49	55	144	55	10	09	66	21	00	4221	19	02	13	21		42		6	7
280	49	54	144	53	11	09	66	00	00	4221	18	02	16	23		42		6	7
281	49	59	144	49	11	09	66	03	00	4221	16	02	17	23		43		6	8
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290	49	55	145	05	12	09	66	06	00	4221	05	10	31	38		36		7	8
291	49	57	145	08	12	09	66	09	00	4221	03	61	36	38	XX			7	8
292	49	53	145	12	12	09	66	12	00	4221	04	61	17	37	XX			7	8
293	49	55	145	03	12	09	66	15	00	4221	04	20	05	48		37		7	8
294	50	00	145	00	12	09	66	18	00	4221	05	02	12	38		36		6	7
295	49	58	145	00	12	09	66	21	00	4221	05	02	11	48		36		3	7
296	50	06	144	56	13	09	66	00	00	4221	06	02	15	34		37		7	7
297	49	48	144	55	13	09	66	03	00	4221	07	02	09	22		46		6	7
298	49	53	144	55	13	09	66	06	00	4221	07	02	10	22		46		6	4
299	49	50	144	56	13	09	66	09	00	4221	08	02	04	00		46		6	8
300	49	56	145	02	13	09	66	12	00	4221	07	02	10	21		45		6	8
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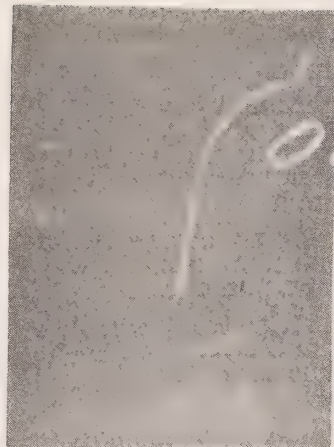
CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
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303	49	58	145	04	13	09	66	21	00	4221	98	61	19	22	44	6	8		
304	49	57	145	08	14	09	66	00	00	4221	93	21	13	22	43	6	8		
305	49	58	145	00	14	09	66	03	00	4221	89	61	17	22	22	7	8		
306	50	04	144	59	14	09	66	06	00	4221	87	02	13	22	22	6	8		
307	50	08	145	03	14	09	66	09	00	4221	85	02	17	22	XX	7	8		
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310	50	00	145	05	14	09	66	18	00	4221	79	21	20	24	36	6	8		
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312	50	04	145	07	15	09	66	00	00	4221	77	10	07	21	36	6	7		
313	49	58	145	00	15	09	66	03	00	4221	78	25	14	22	36	8	7		
314	50	03	144	55	15	09	66	06	00	4221	79	02	30	25	XX	8	8		
315	50	03	145	05	15	09	66	09	00	4221	84	02	37	27	XX	7	8		
316	49	55	145	00	15	09	66	18	00	4221	92	15	28	37	46	9	5		
317	49	57	145	12	15	09	66	21	00	4221	92	02	22	36	35	6	7		
318	49	50	145	22	16	09	66	00	00	4221	90	02	20	36	35	8	4		
319	49	54	145	17	16	09	66	03	00	4221	87	02	19	23	45	6	7		
320	49	59	145	02	16	09	66	06	00	4221	83	63	28	34	45	7	8		
321	50	01	144	50	16	09	66	09	00	4221	74	63	34	37	XX	7	8		
322	49	58	144	45	16	09	66	12	00	4221	68	21	25	39	XX	6	2		
323	50	06	144	38	16	09	66	15	00	4221	67	61	17	23	39	6	8		
324	50	01	144	52	16	09	66	18	00	4221	68	02	23	36	49	6	4		
325	50	03	144	58	16	09	66	21	00	4221	70	16	33	42	46	8	7		
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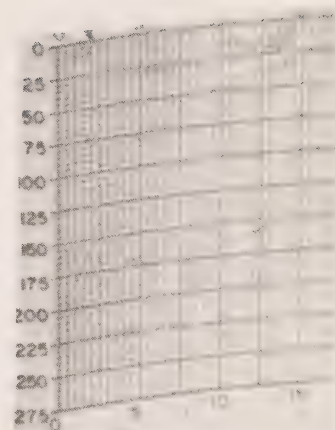
CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Aml	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
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341	49	13	133	40	20	09	66	22	00	3200	18	02	30	33	34	7	8		
342	49	08	132	40	21	09	66	01	00	3275	19	02	27	23	34	7	7		
343	49	00	131	40	21	09	66	04	15	2875	21	02	12	23	34	X	9		
344	49	02	130	40	21	09	66	07	15	2930	23	02	16	23	34	X	7		
345	48	55	129	40	21	09	66	10	30	2601	23	02	10	22	23	8	3		
346	48	51	128	40	21	09	66	13	36	2529	23	03	10	22	23	4	6		
347	48	46	127	40	21	09	66	16	45	2500	22	02	16	22	23	4	6		
348	48	42	126	40	21	09	66	20	10	1300	21	02	10	22	23	1	2		
349	48	38	126	00	21	09	66	22	00	0110	20	02	08	22	23	1	2		
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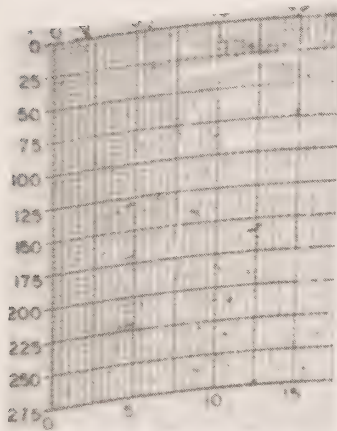
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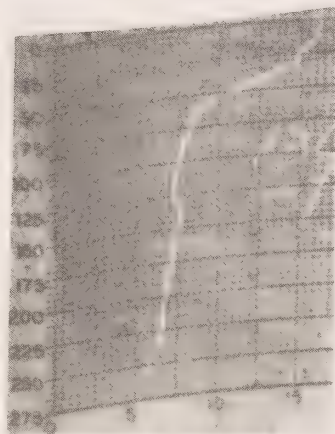
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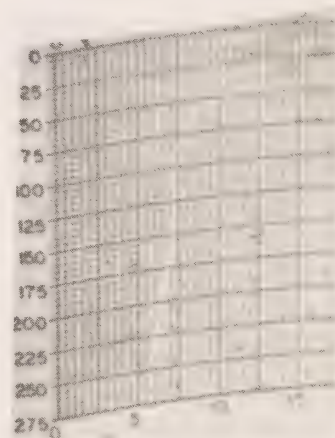
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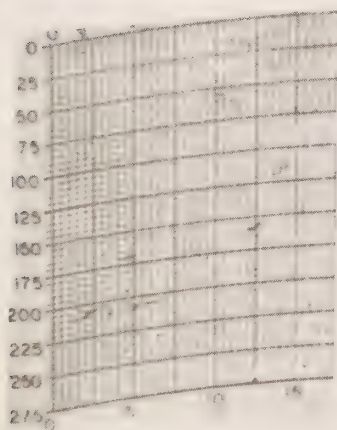
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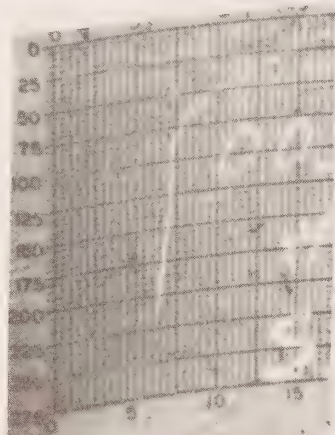
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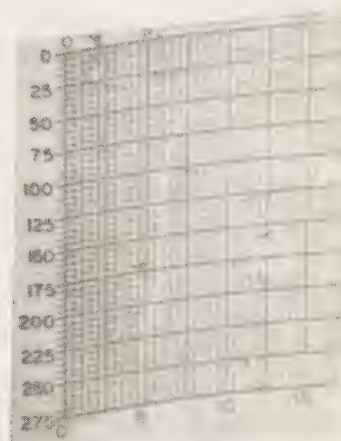
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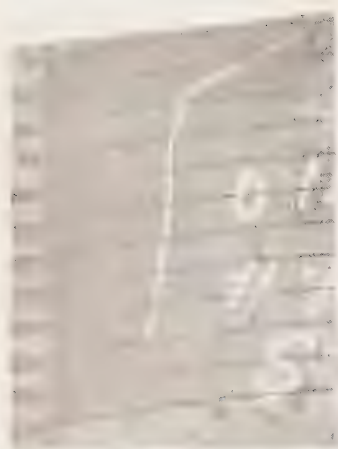
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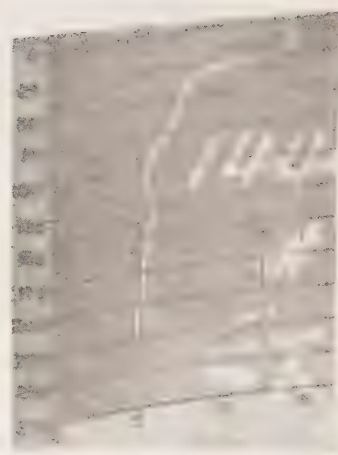
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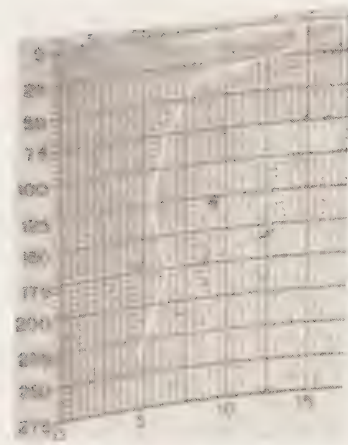
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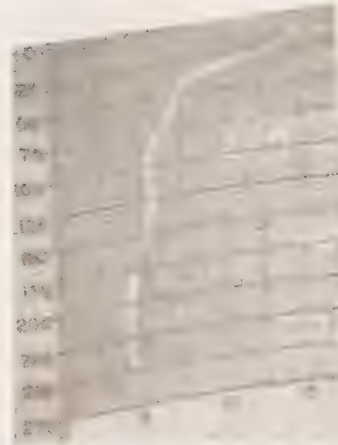
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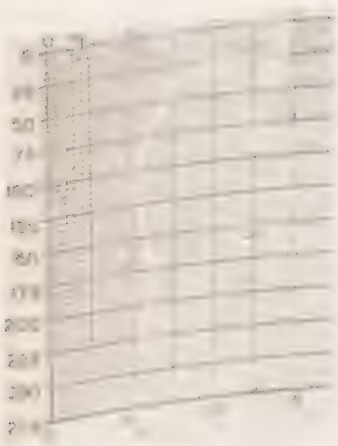
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14



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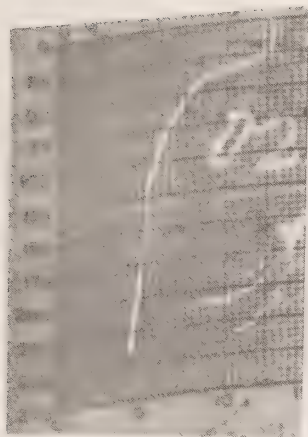
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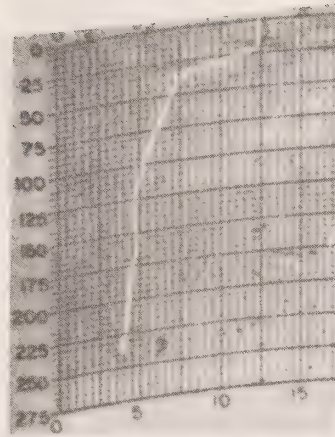
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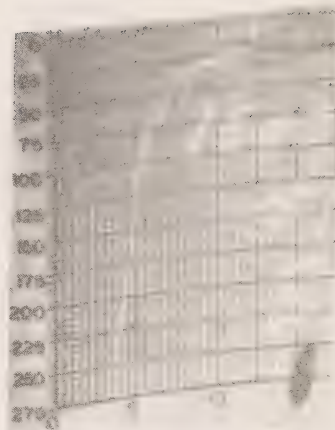
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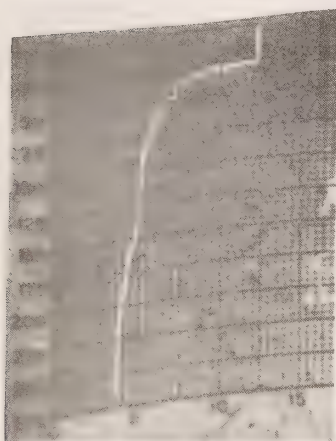
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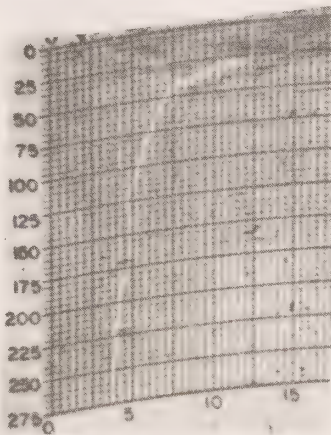
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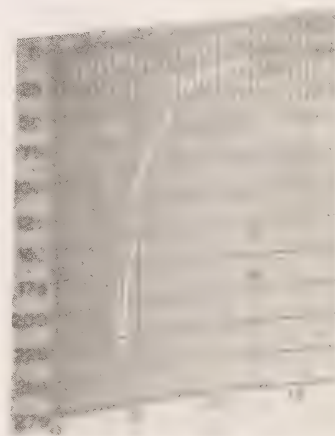
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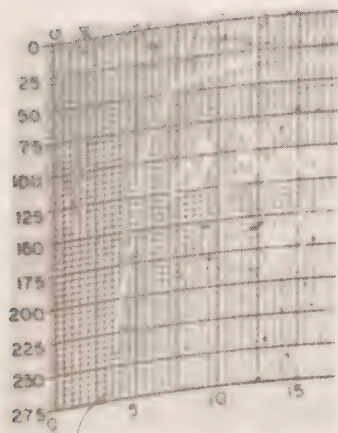
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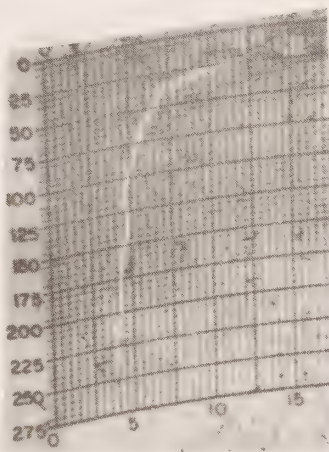
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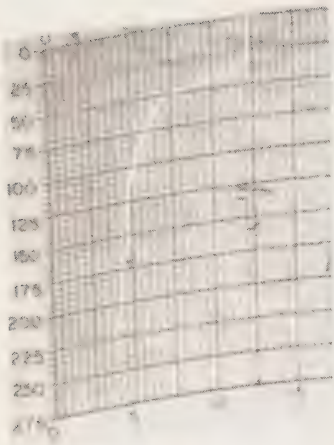
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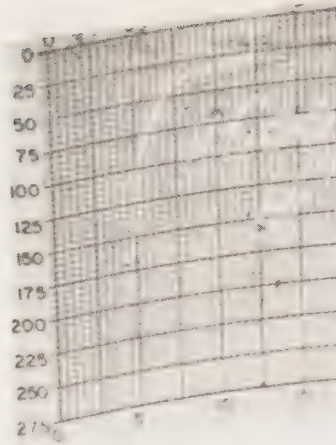
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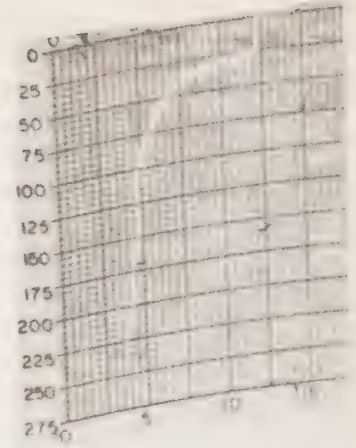
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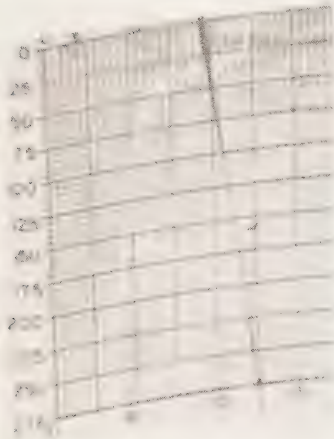
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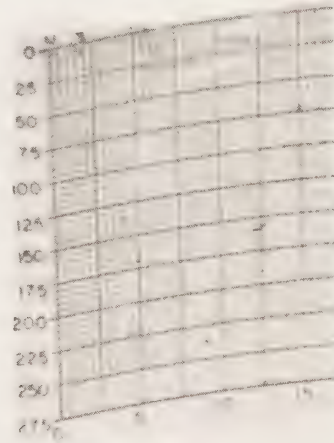
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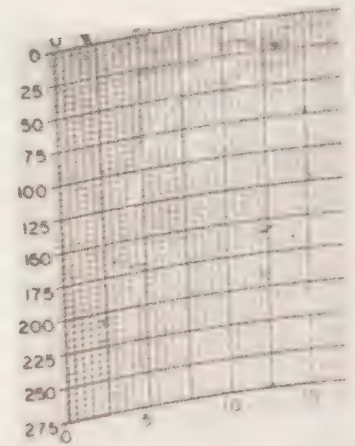
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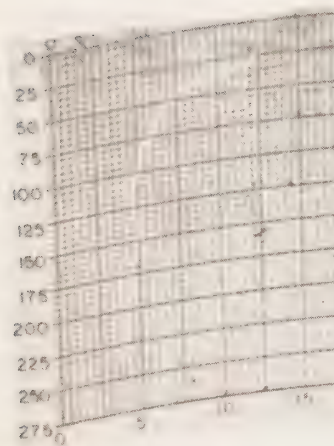
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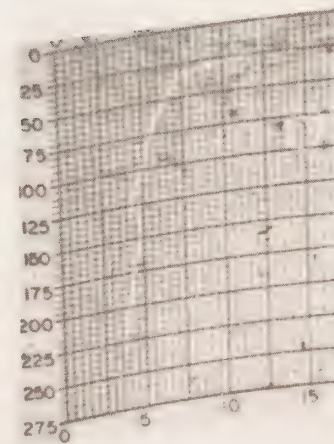
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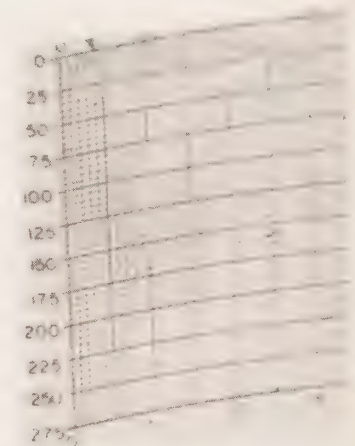
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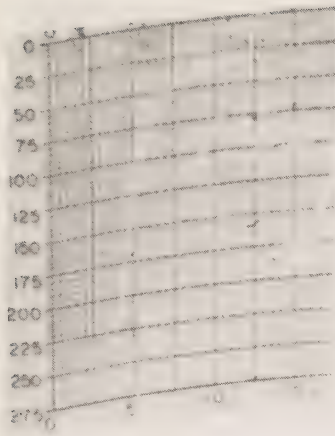
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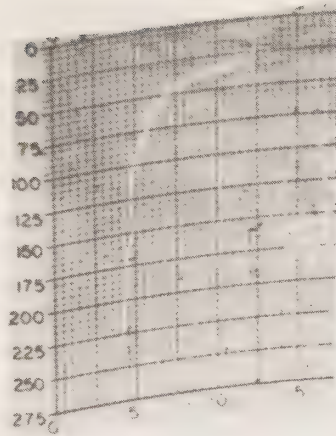
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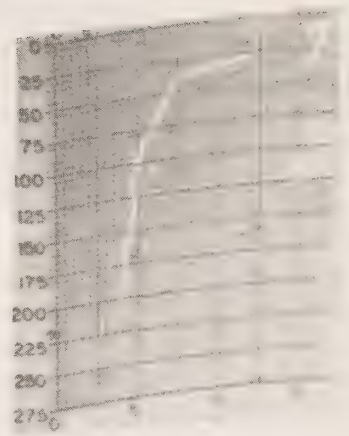
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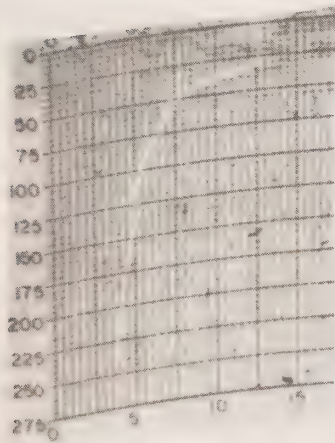
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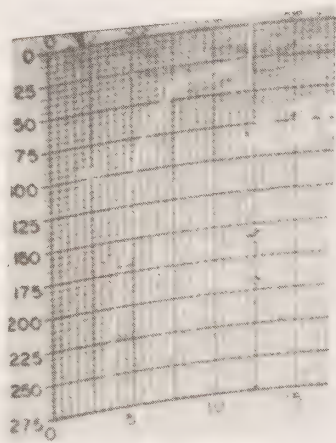
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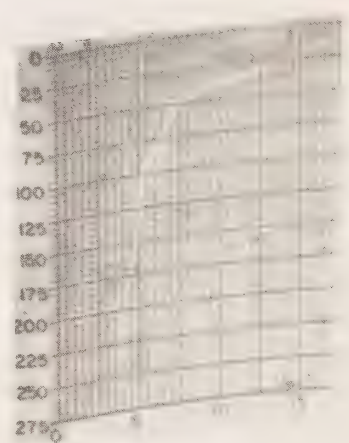
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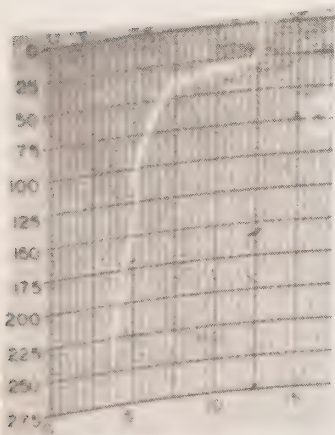
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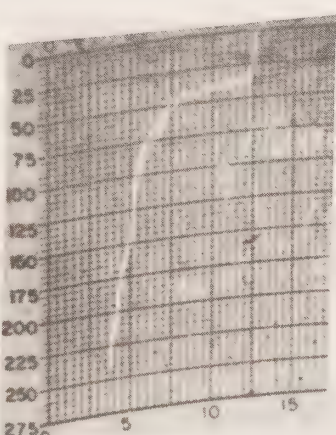
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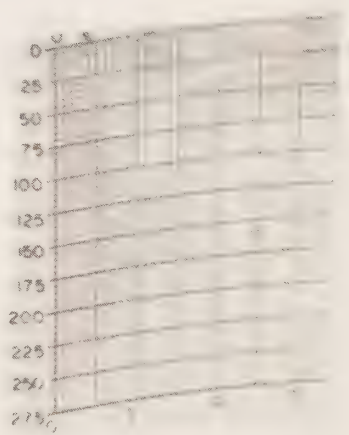
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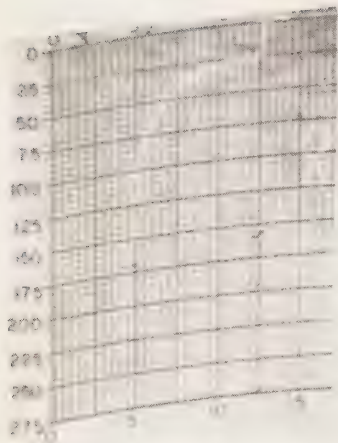
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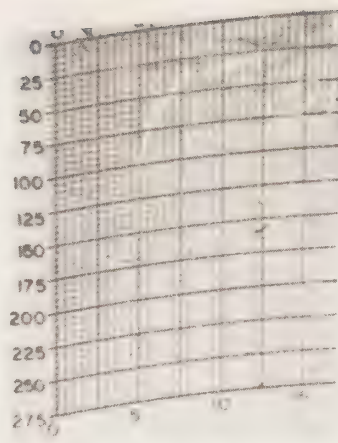
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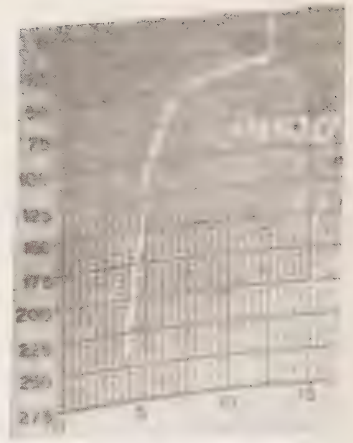
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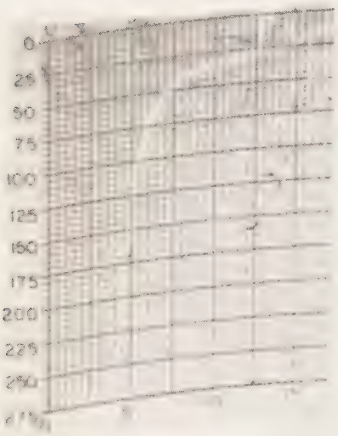
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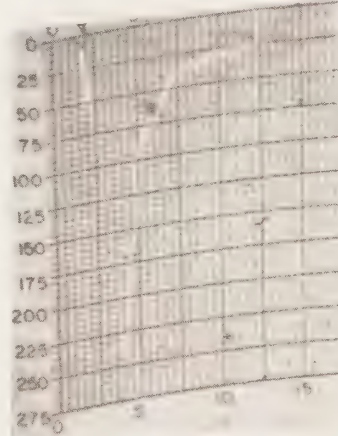
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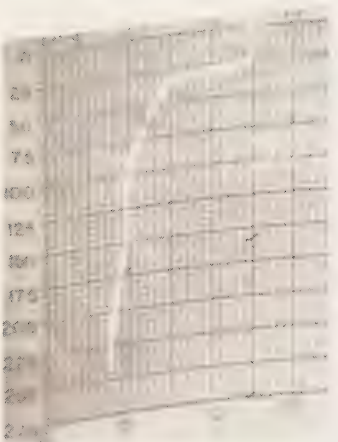
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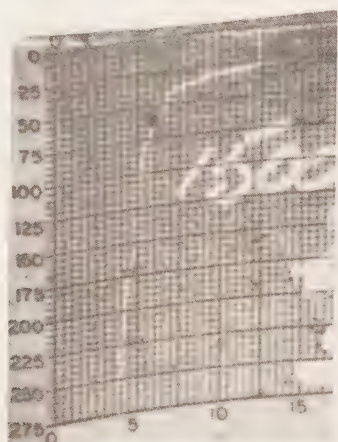
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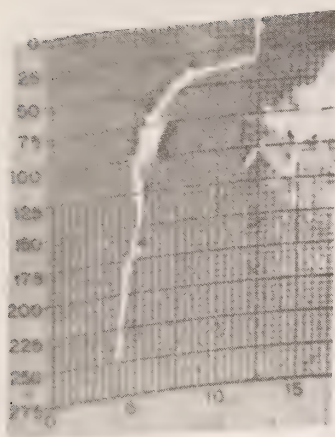
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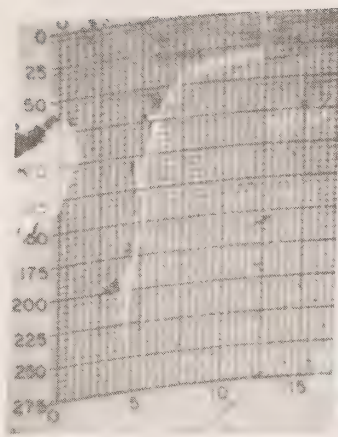
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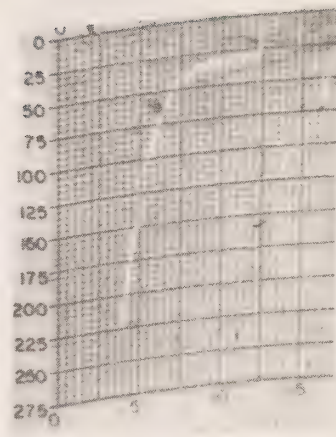
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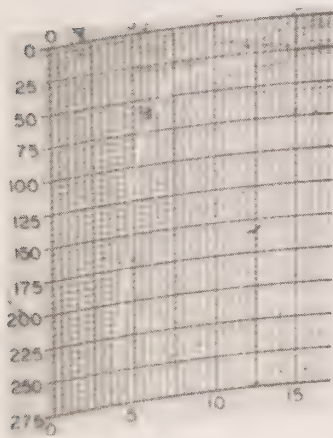
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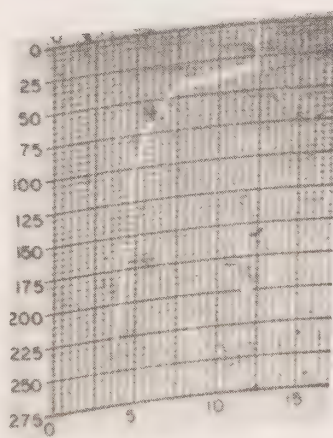
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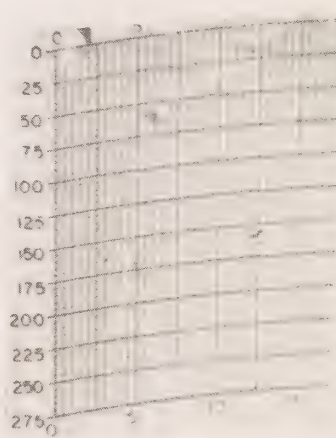
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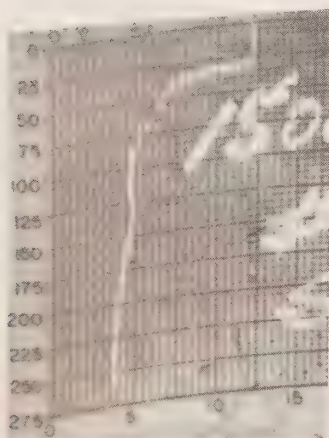
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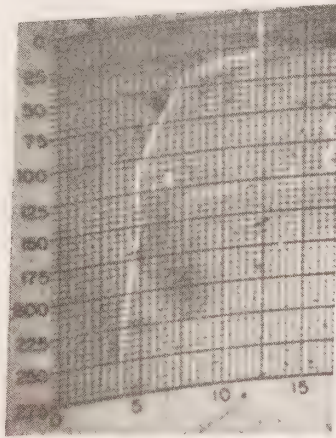
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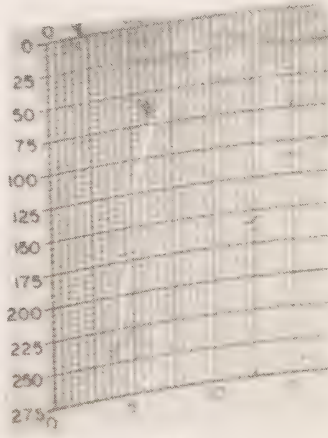
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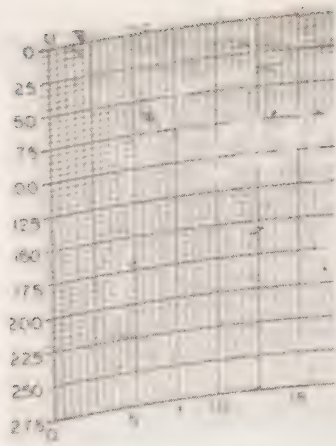
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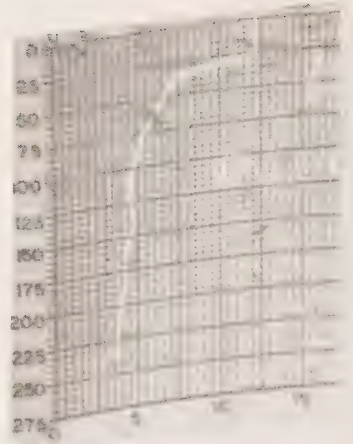
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64



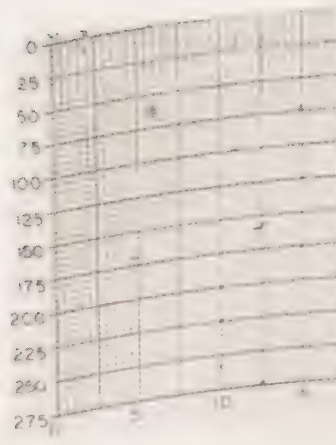
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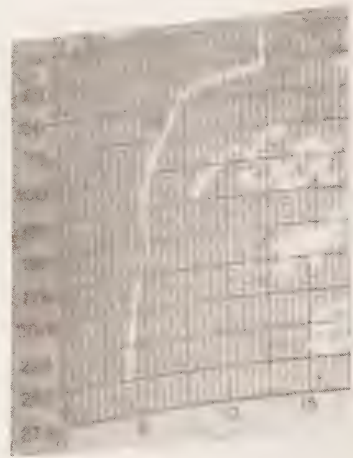
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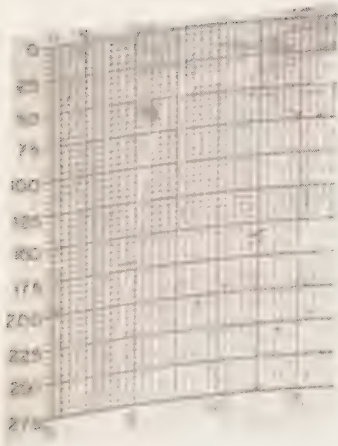
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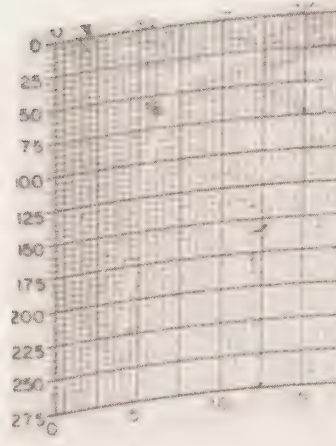
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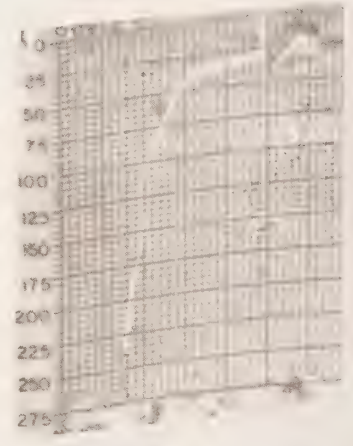
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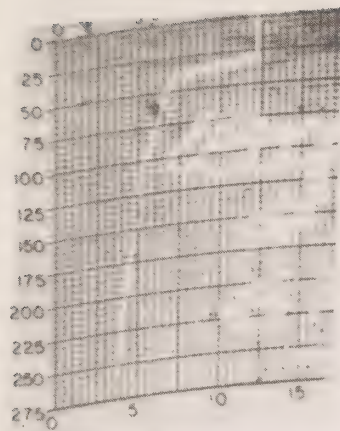
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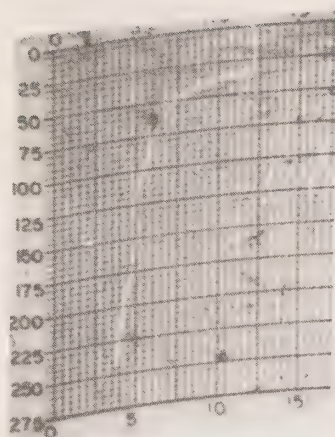
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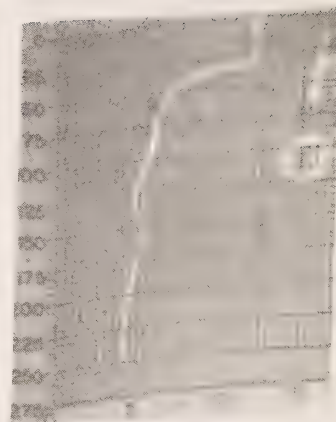
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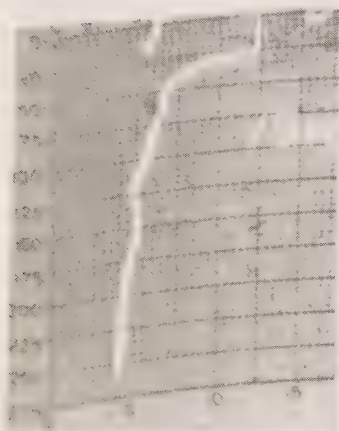
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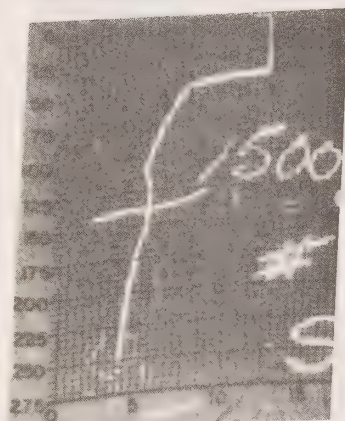
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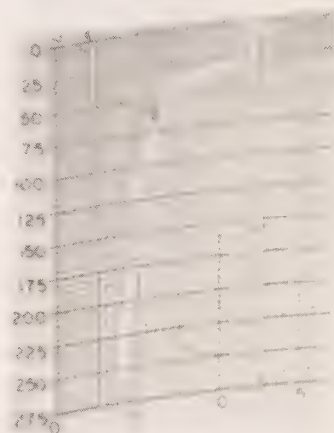
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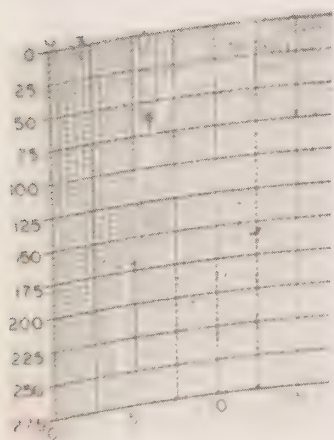
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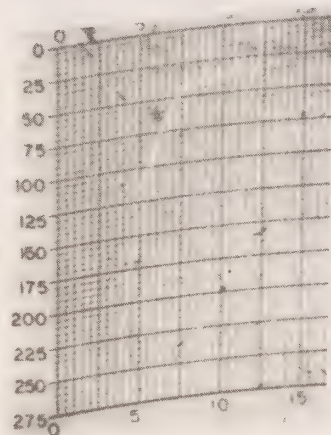
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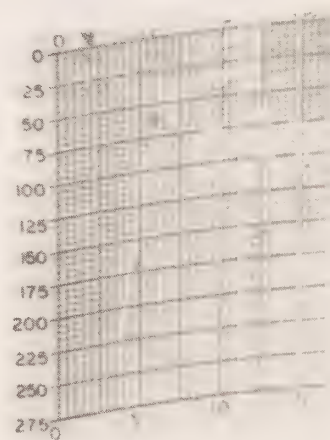
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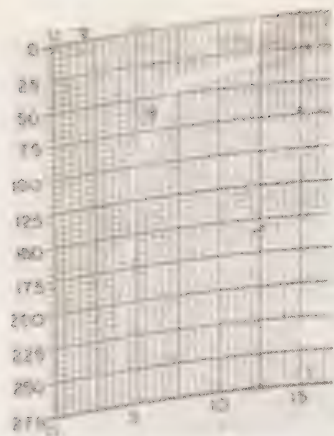
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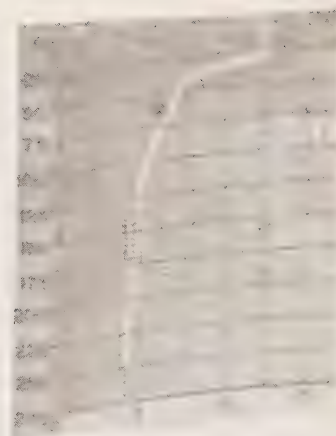
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82



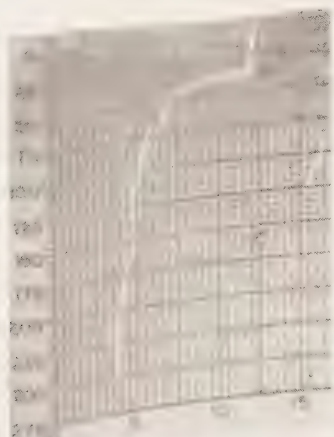
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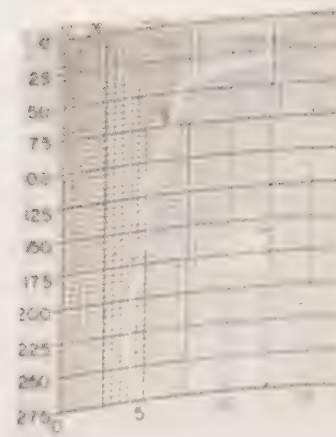
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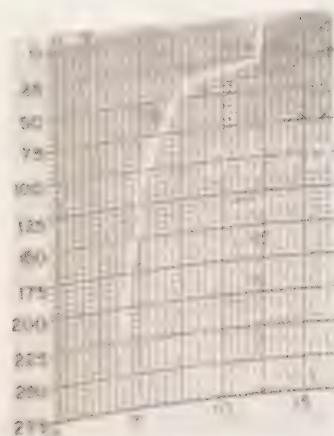
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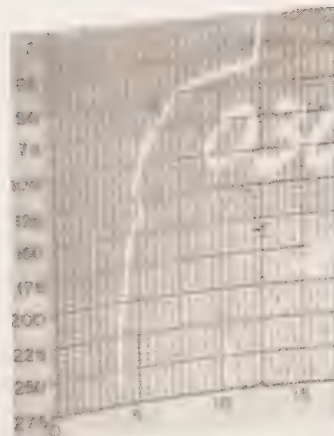
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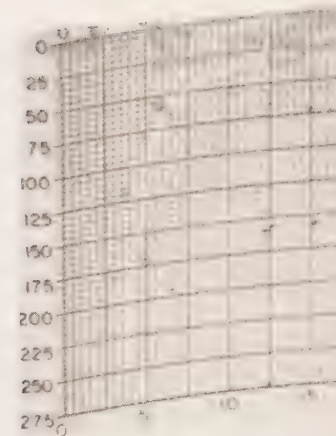
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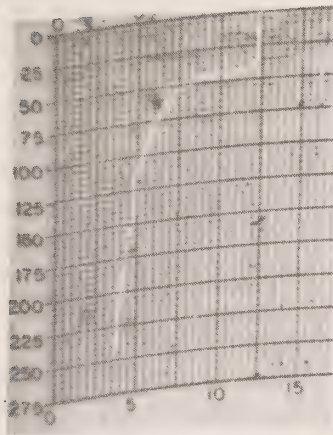
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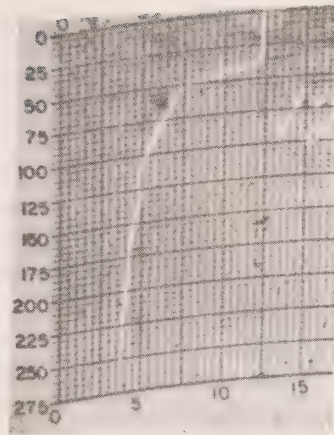
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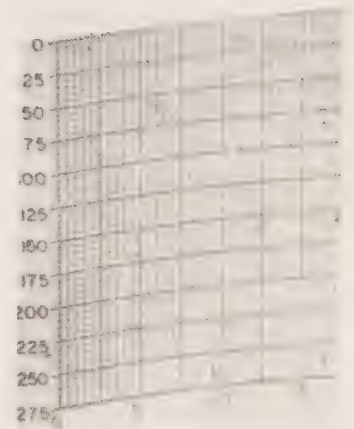
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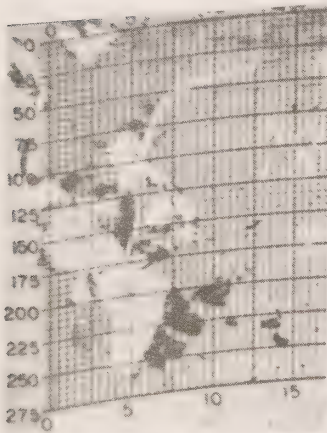
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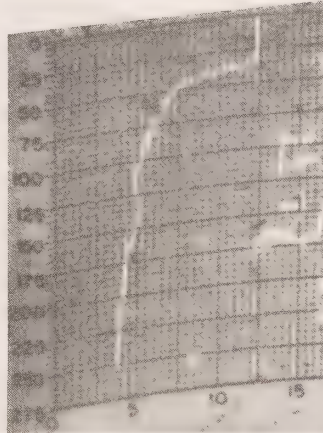
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93



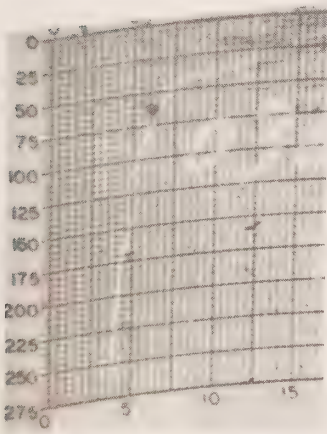
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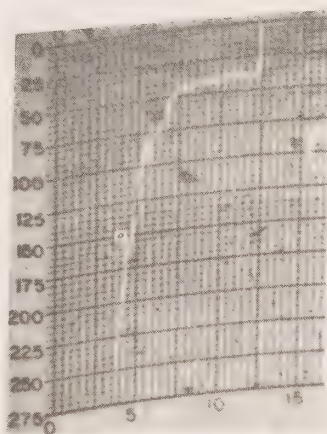
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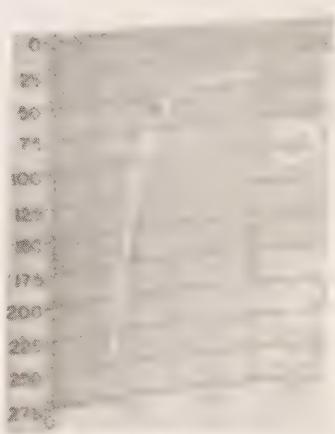
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97



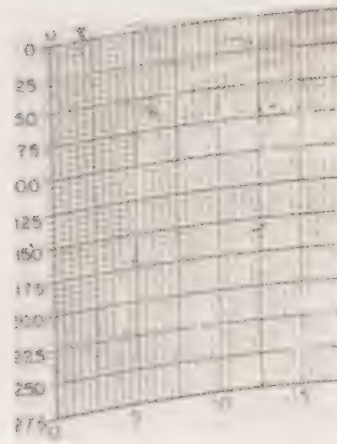
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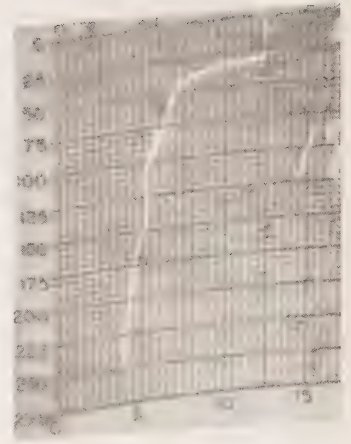
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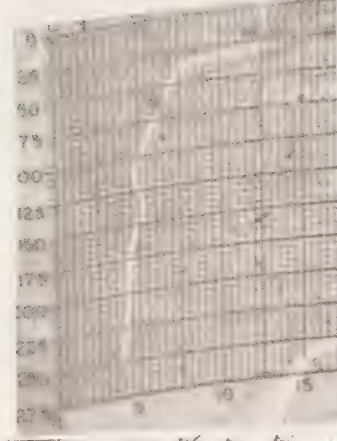
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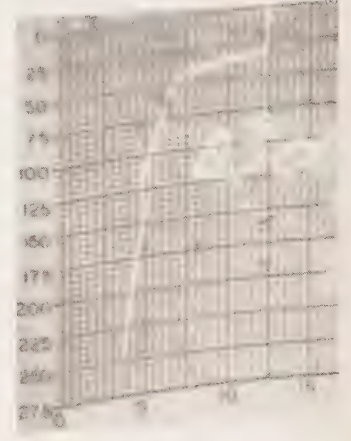
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103



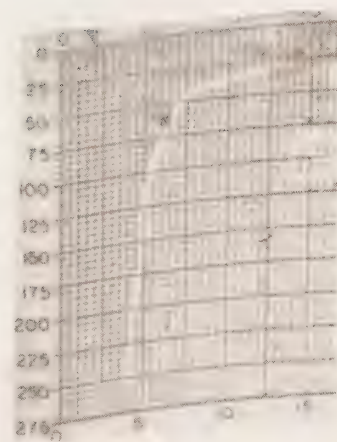
104



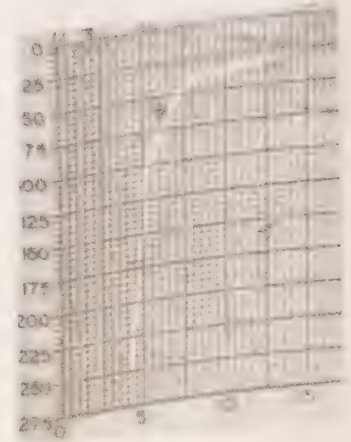
105



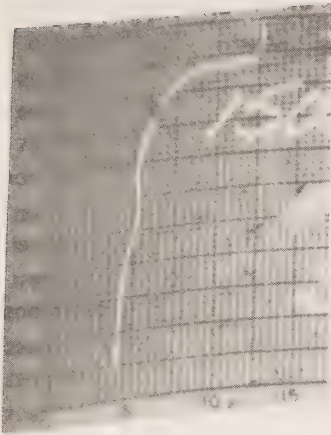
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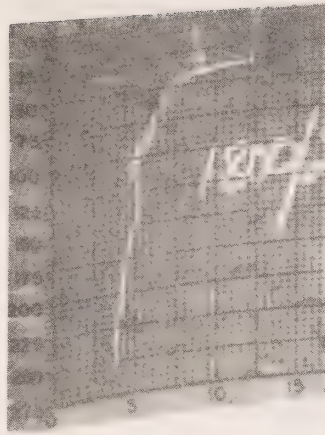
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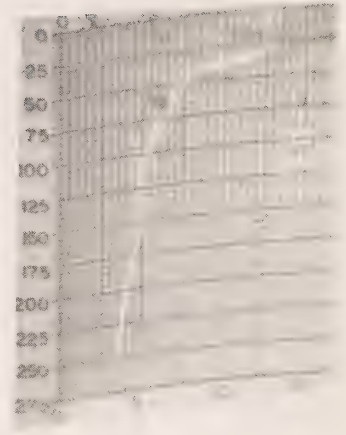
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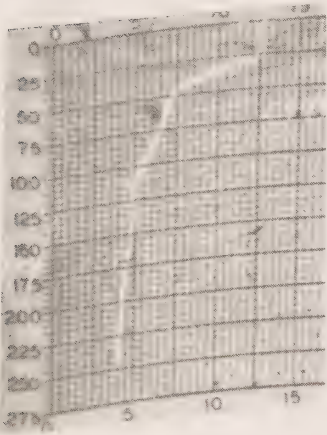
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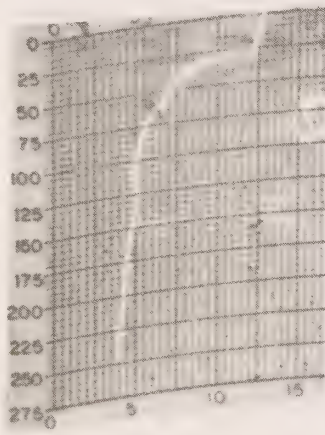
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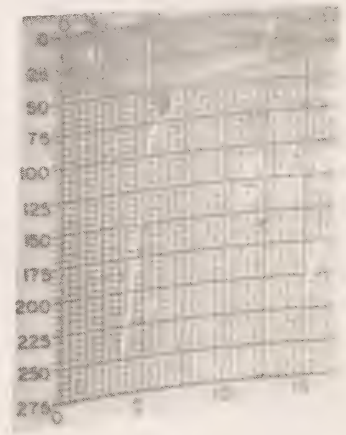
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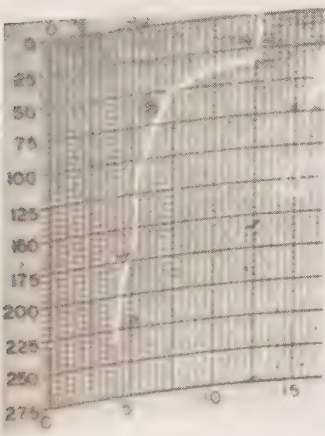
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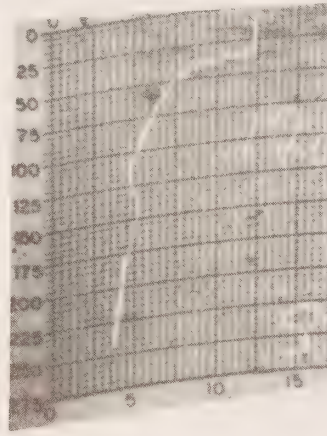
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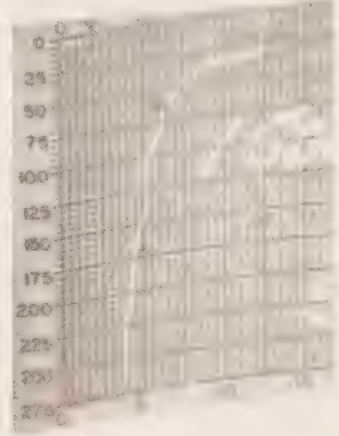
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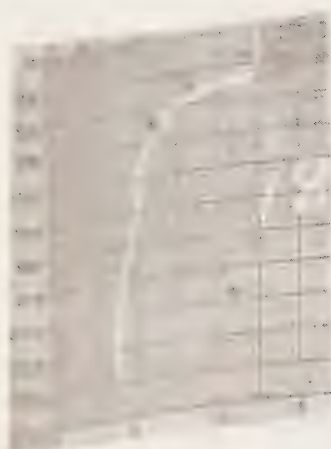
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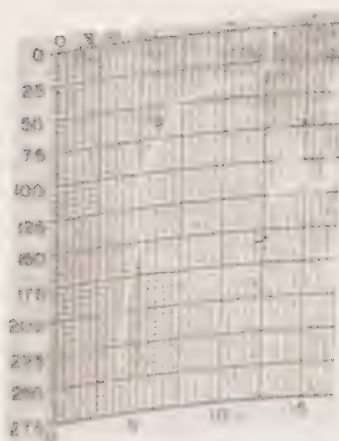
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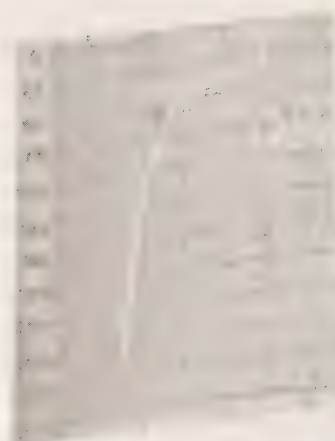
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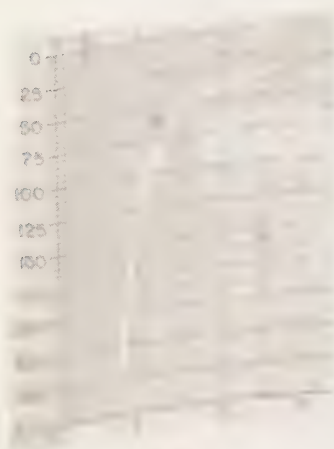
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119



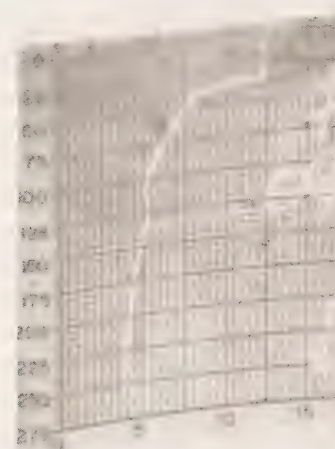
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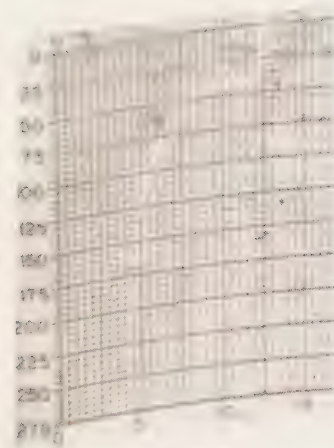
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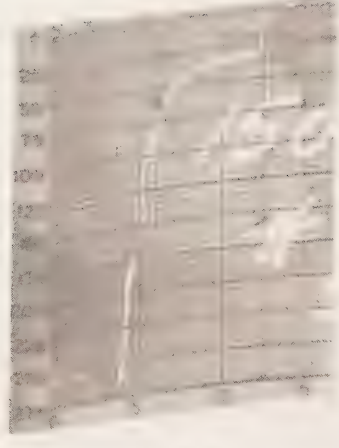
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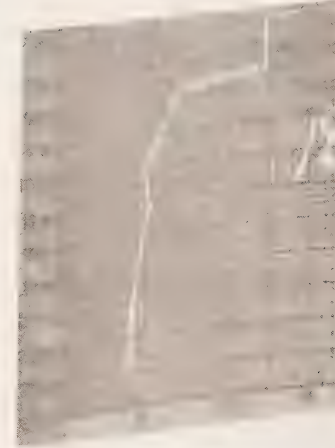
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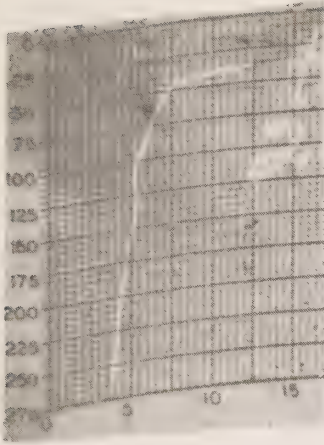
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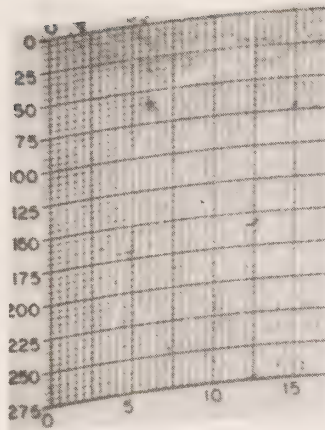
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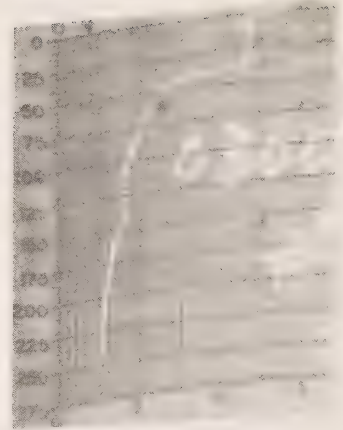
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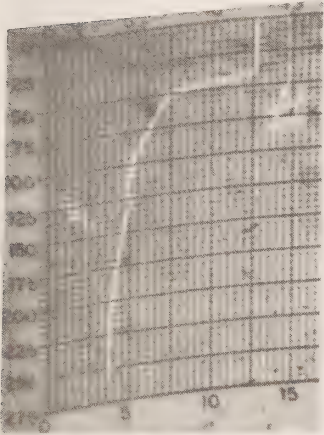
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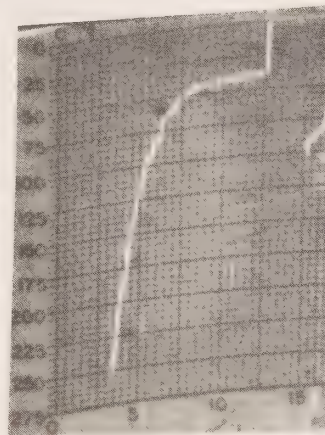
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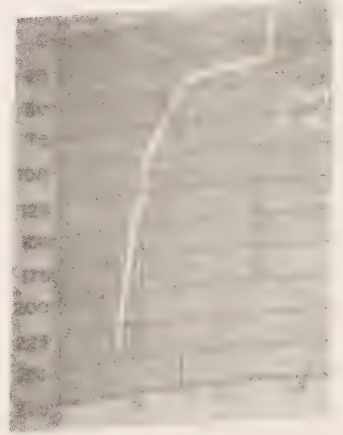
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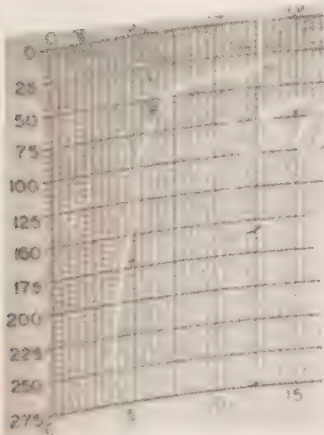
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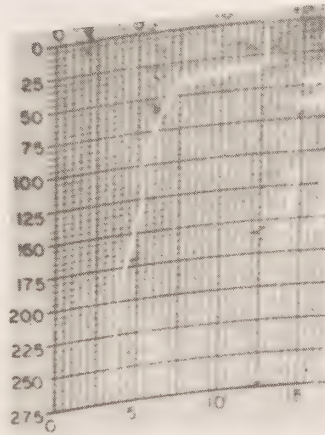
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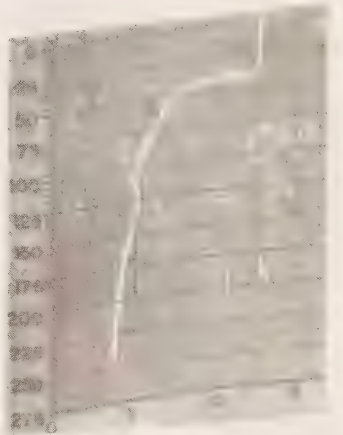
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133



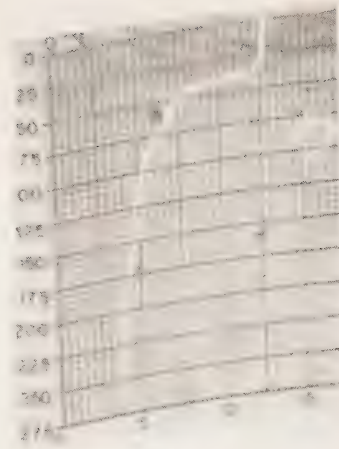
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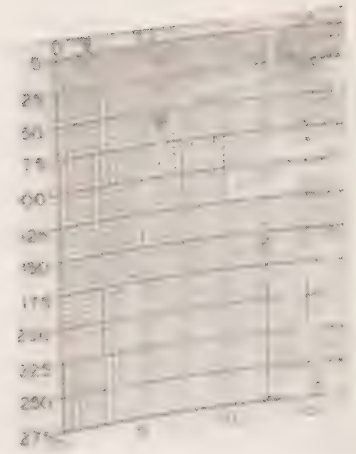
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137



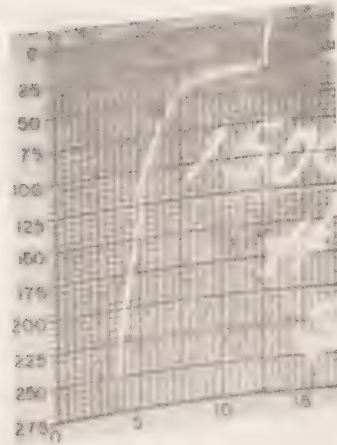
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139



140



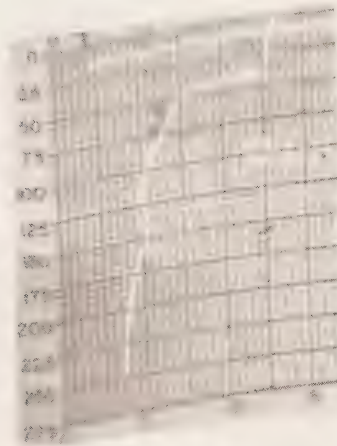
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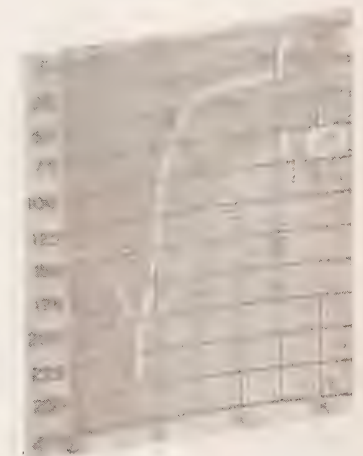
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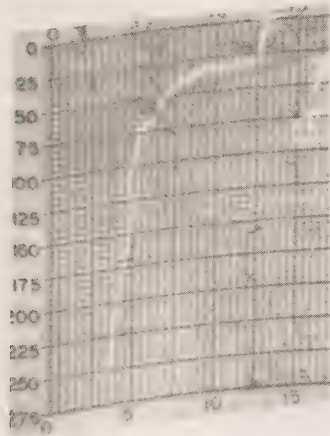
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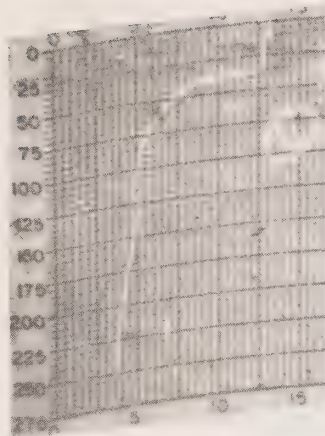
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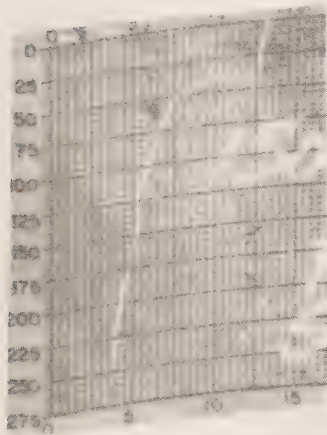
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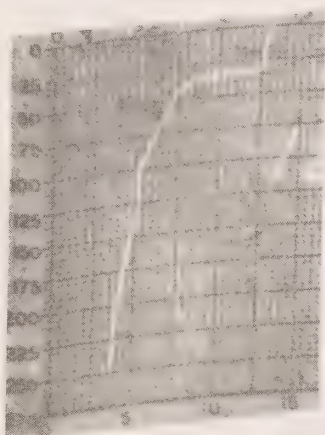
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148



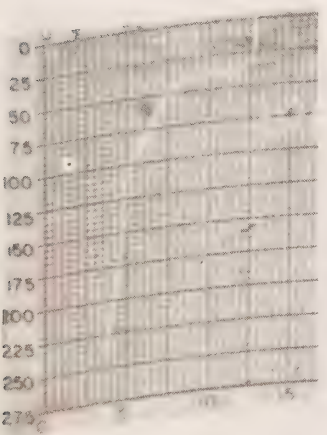
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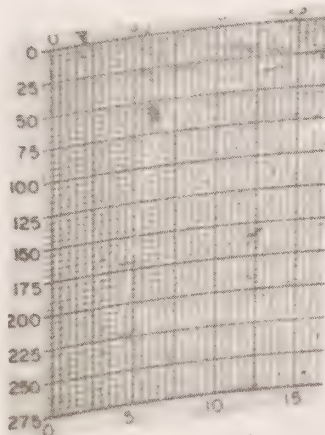
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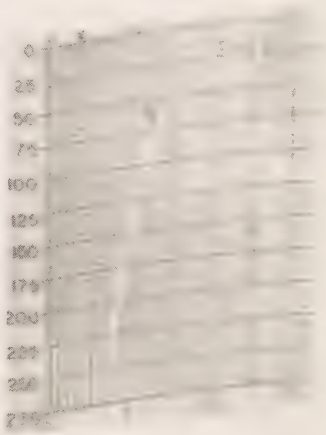
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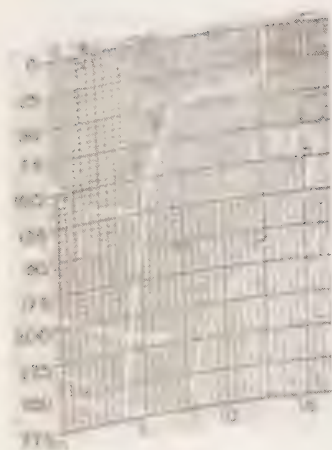
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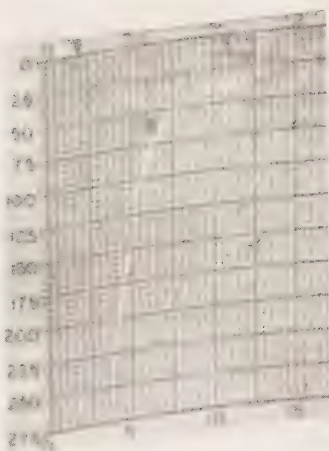
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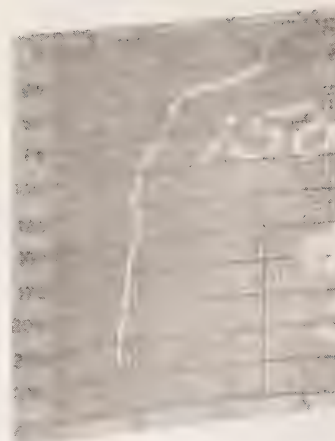
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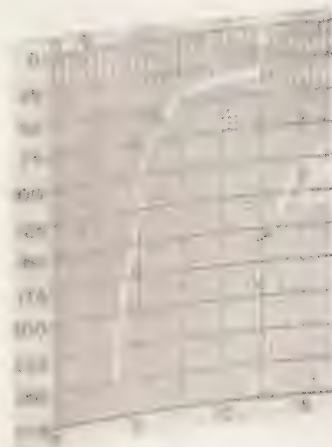
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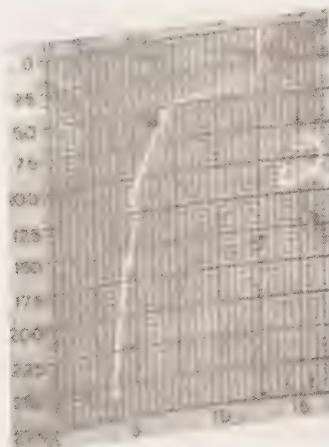
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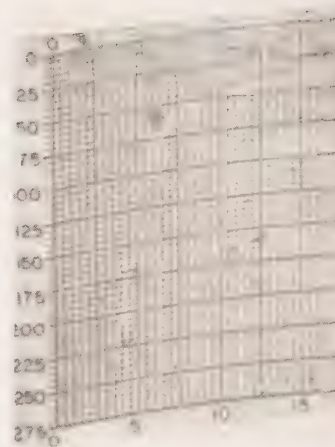
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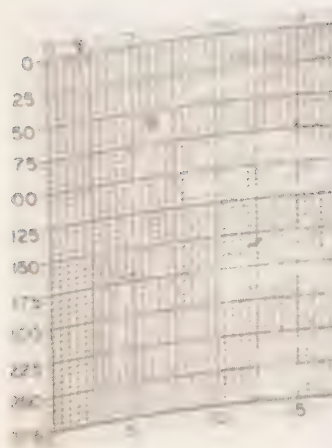
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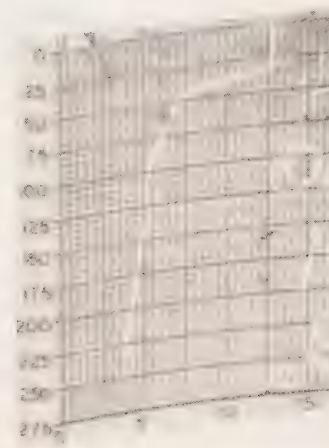
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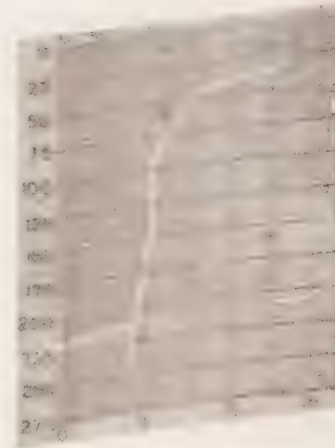
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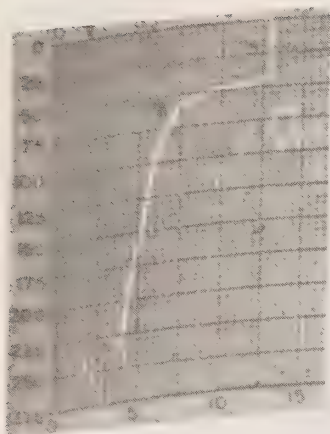
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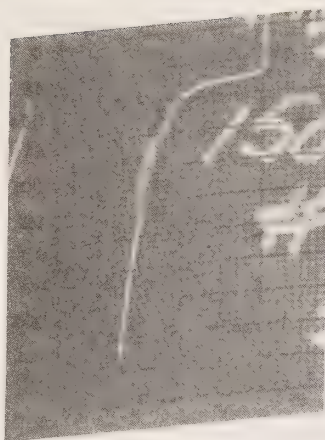
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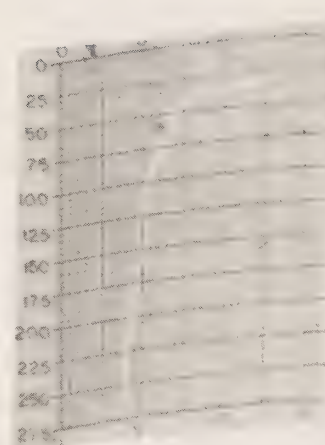
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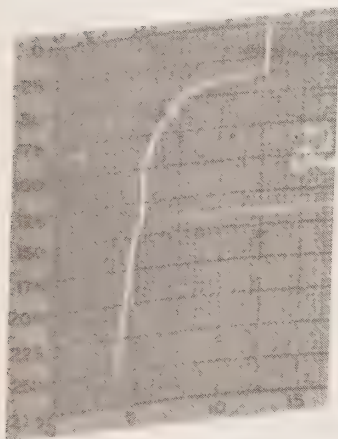
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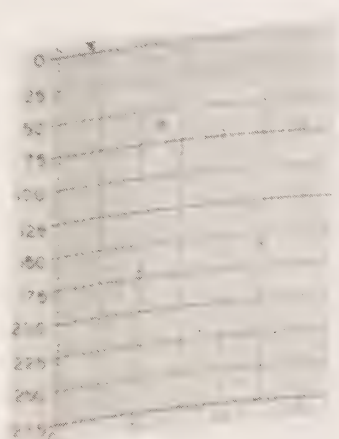
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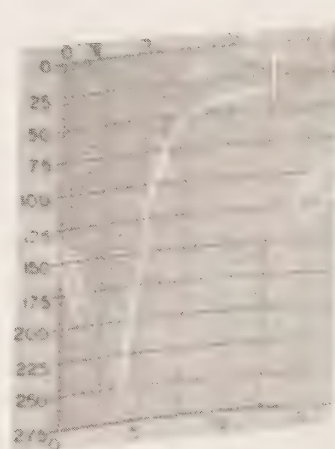
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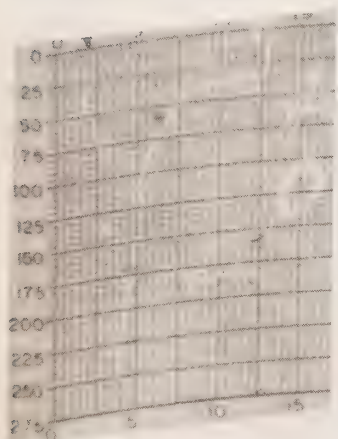
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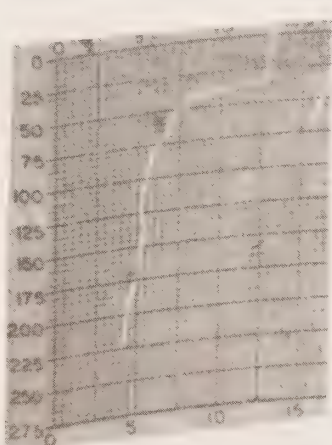
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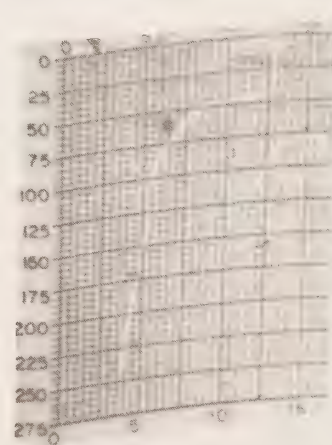
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170



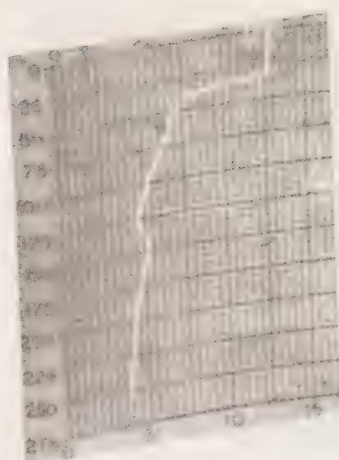
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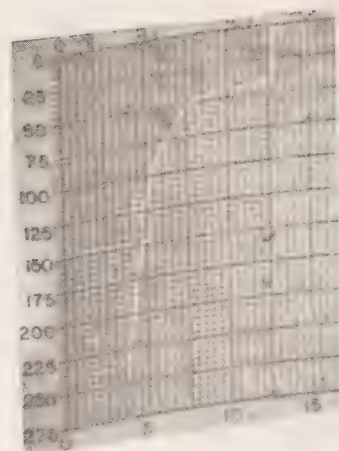
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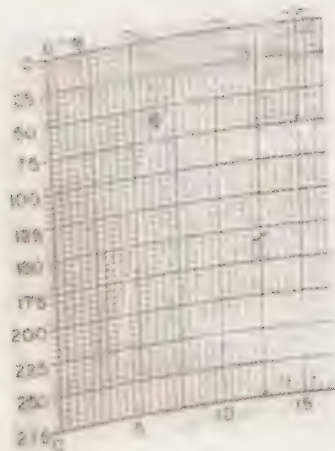
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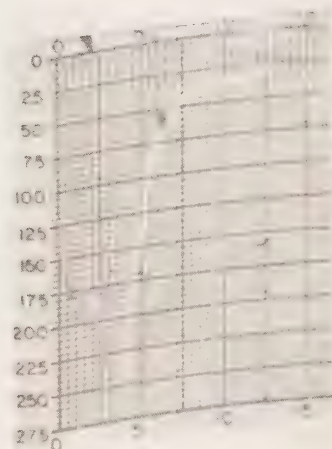
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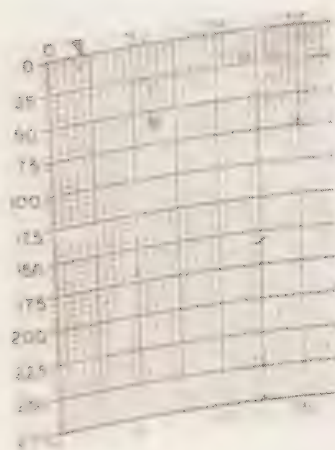
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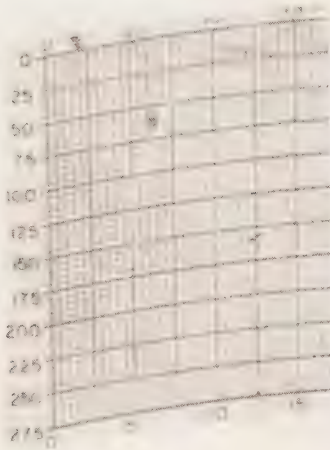
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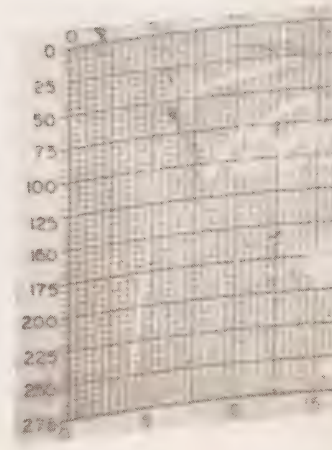
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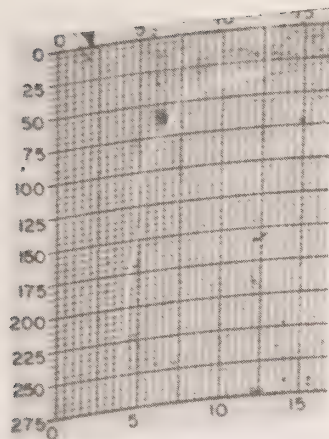
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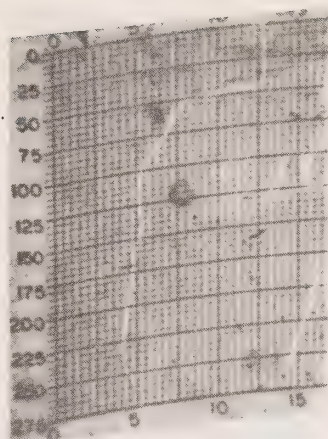
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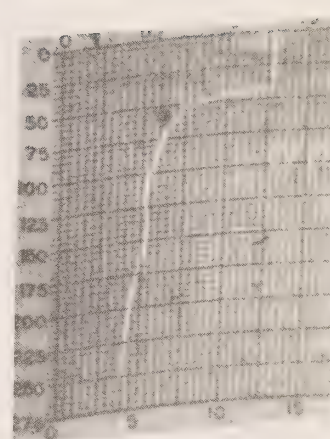
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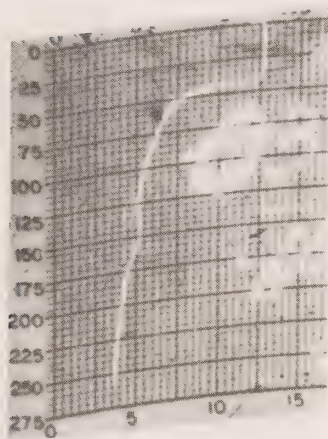
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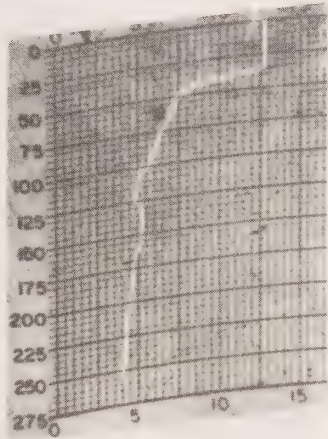
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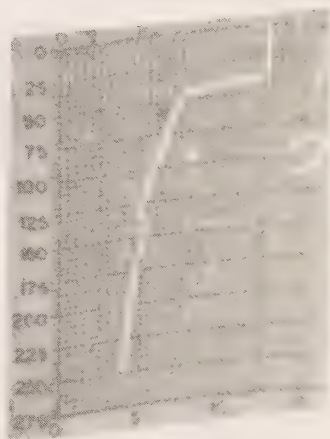
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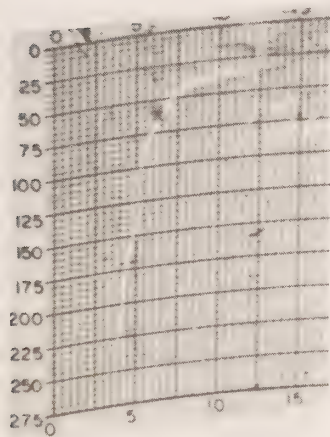
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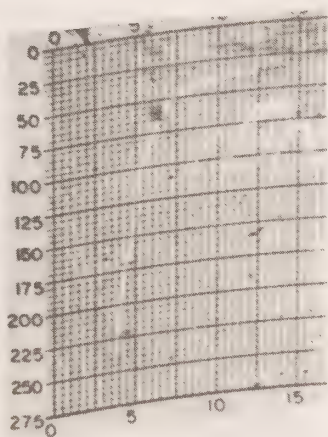
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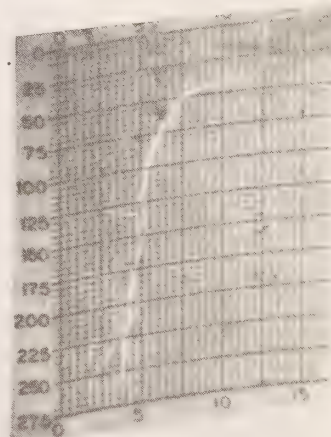
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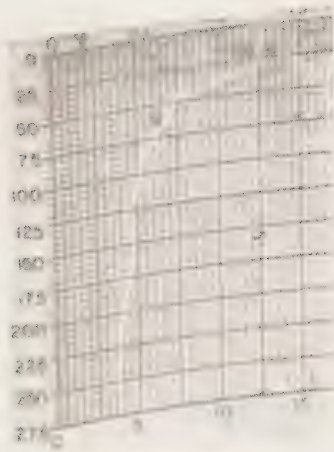
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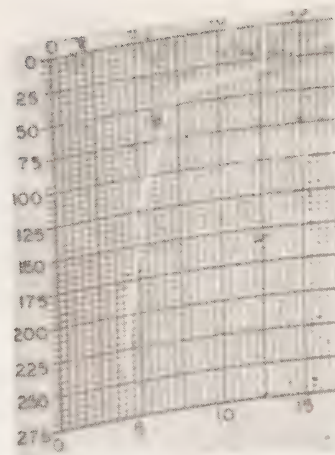
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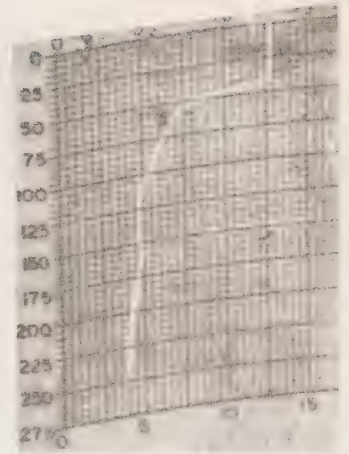
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191



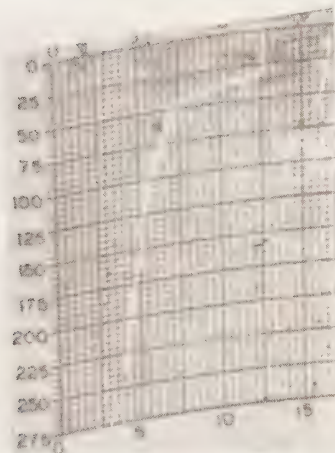
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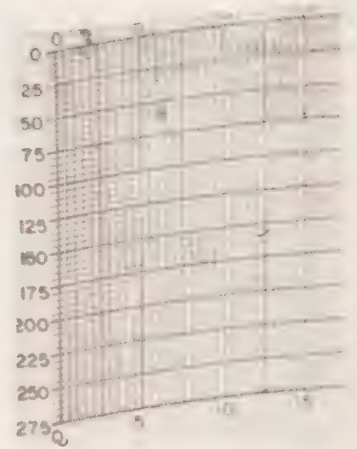
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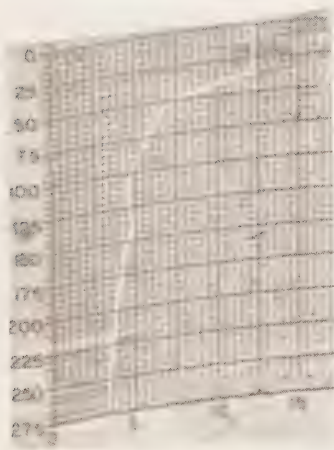
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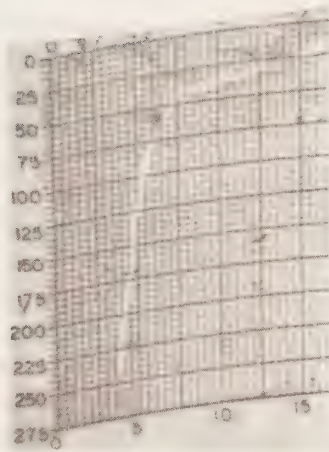
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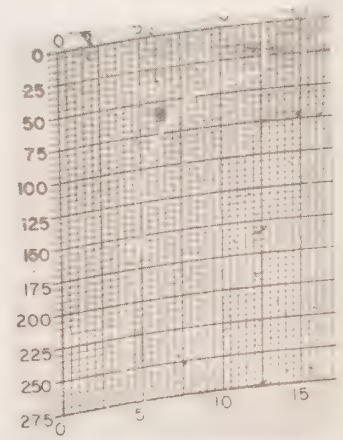
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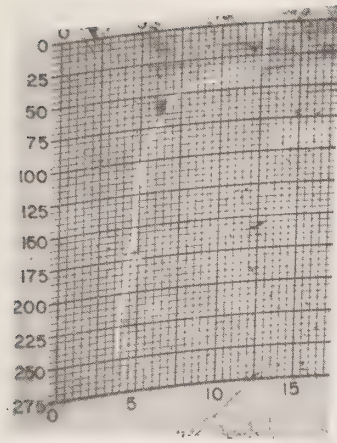
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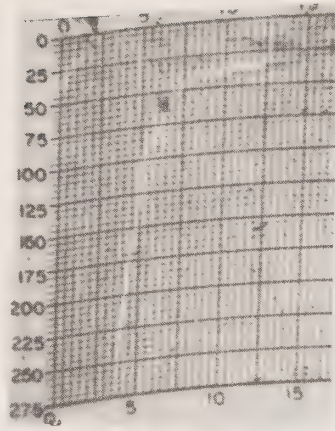
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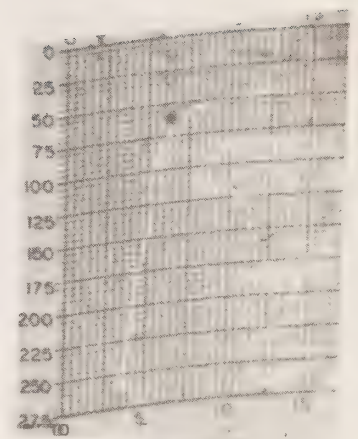
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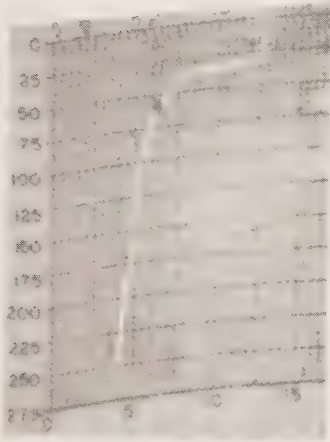
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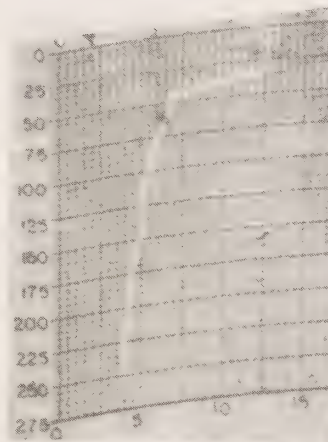
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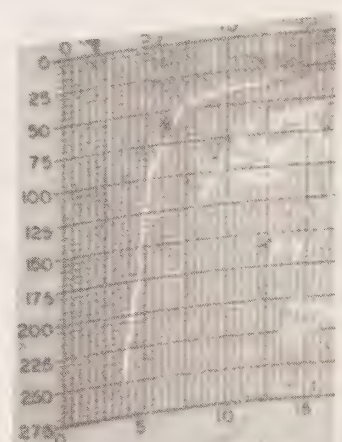
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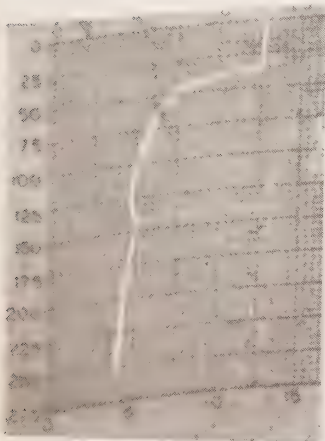
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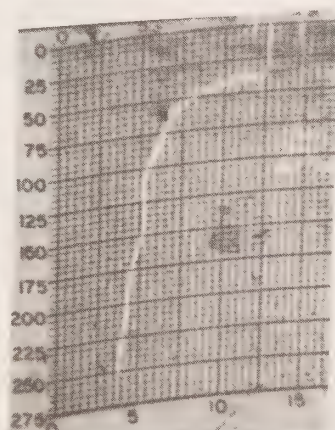
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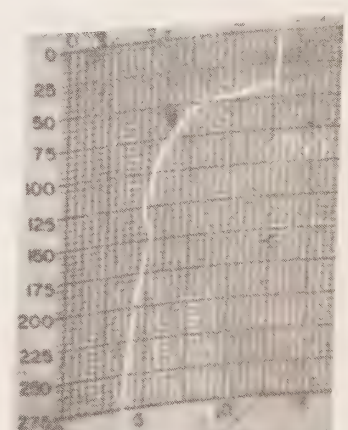
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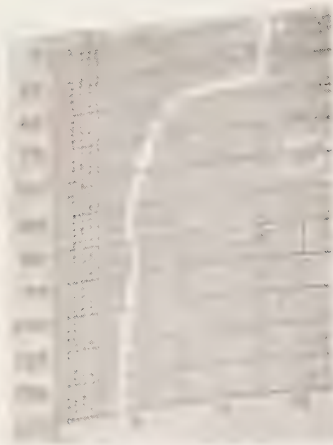
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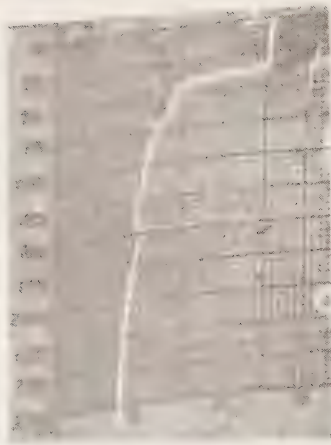
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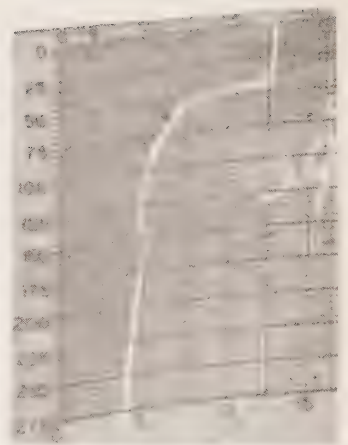
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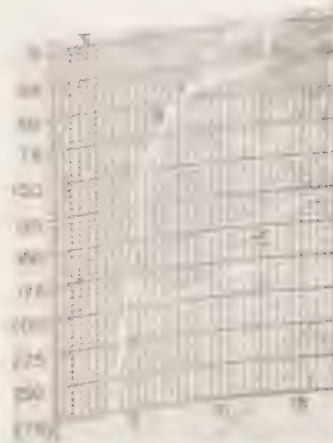
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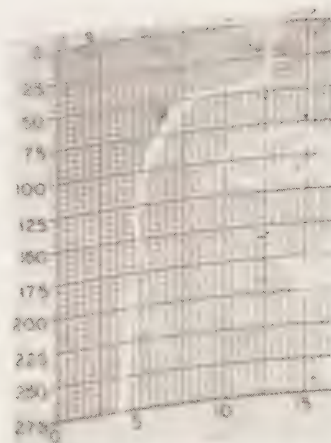
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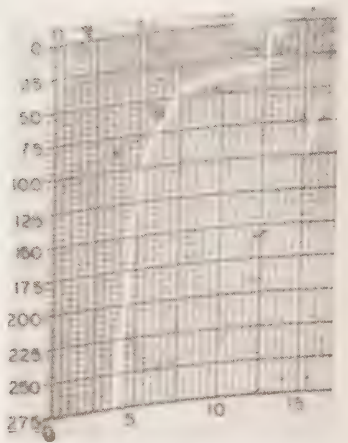
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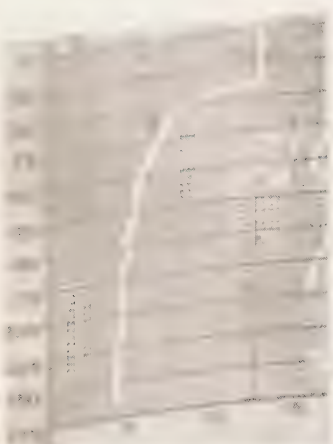
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213



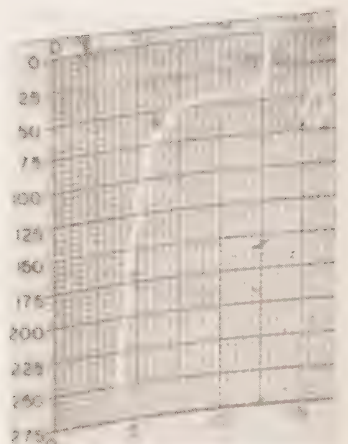
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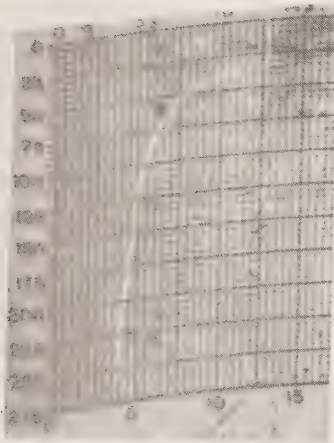
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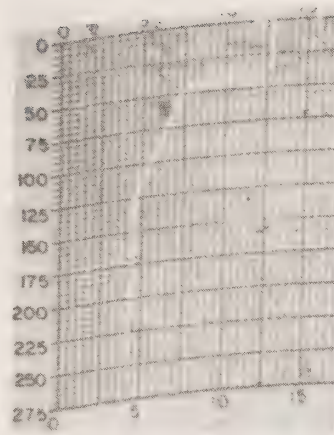
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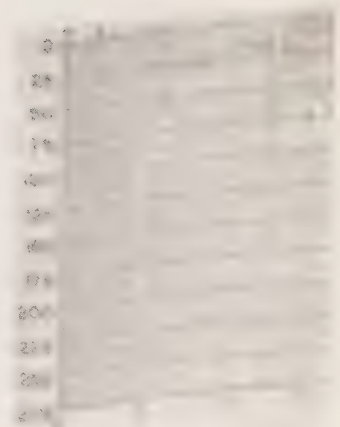
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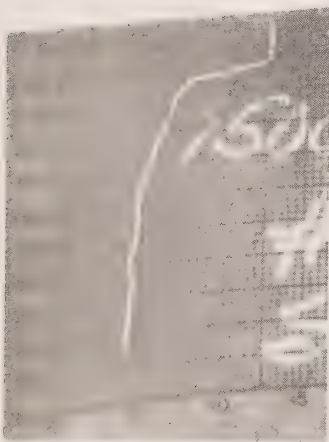
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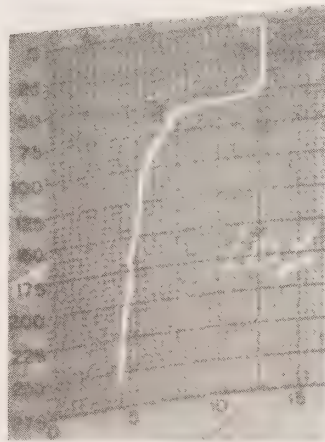
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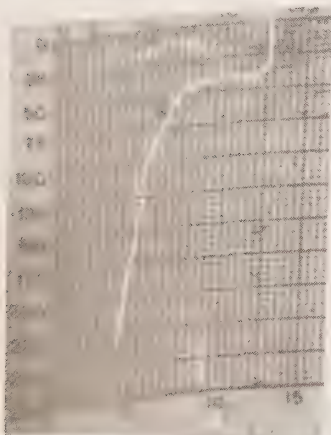
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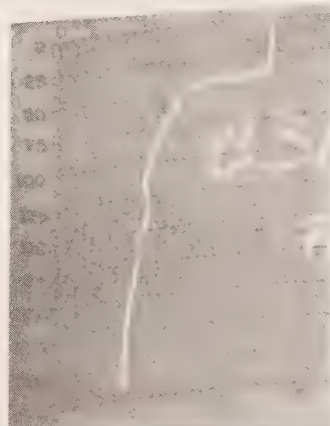
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223



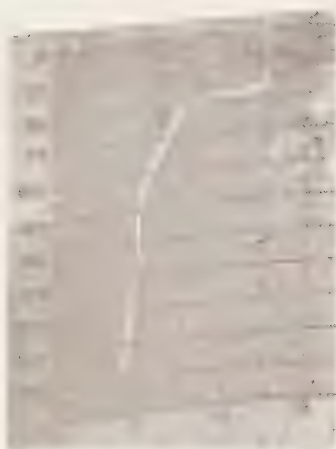
224



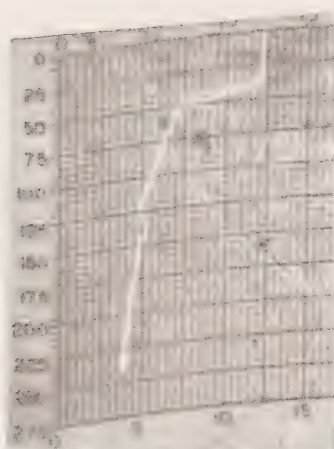
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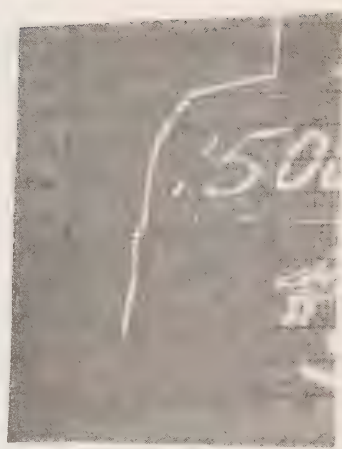
226



227



228



229



230



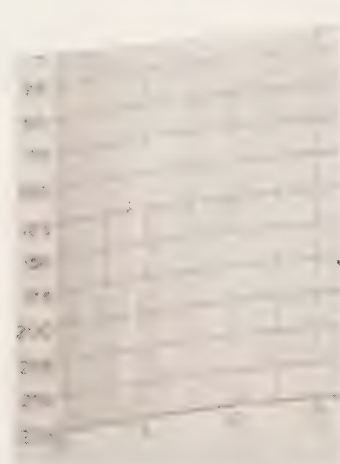
231



232



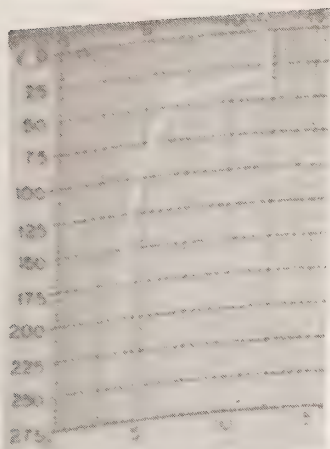
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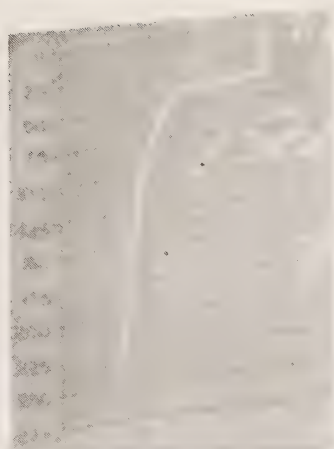
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235



236



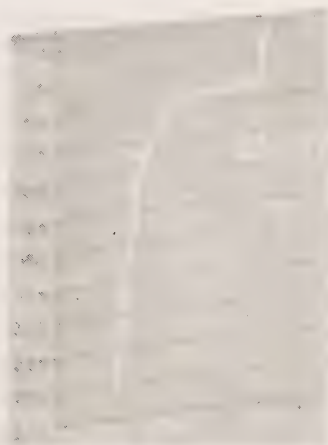
237



238



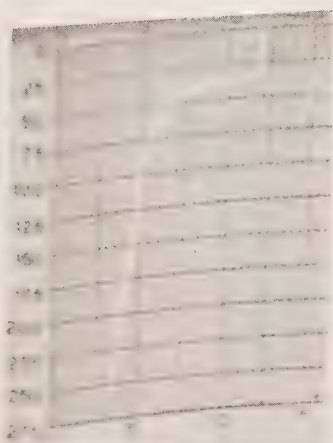
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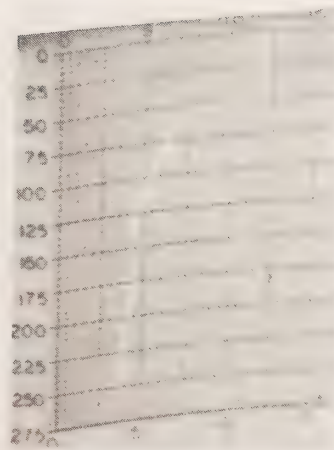
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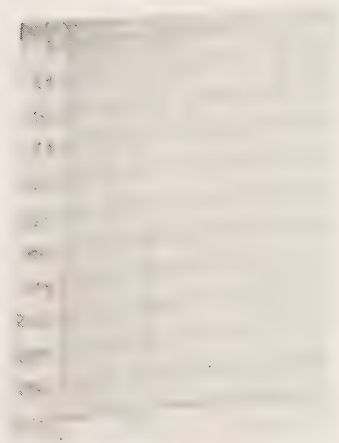
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242



243



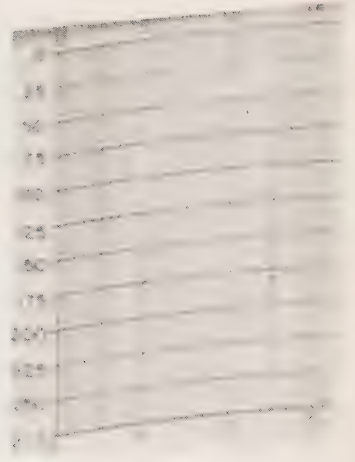
244



245



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250



251



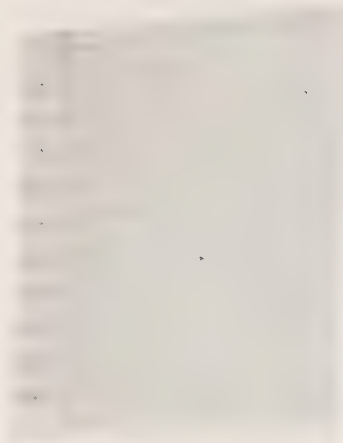
252



253



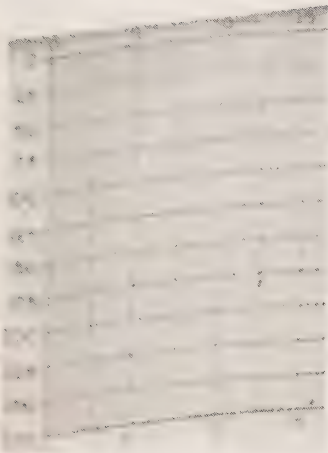
254



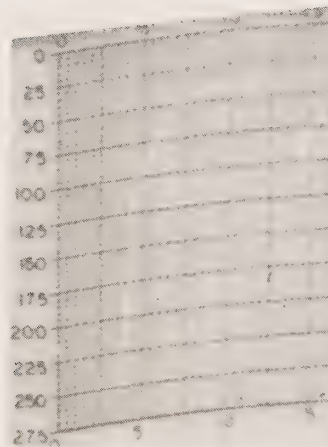
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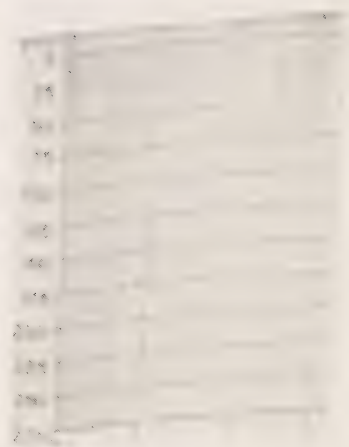
256



257



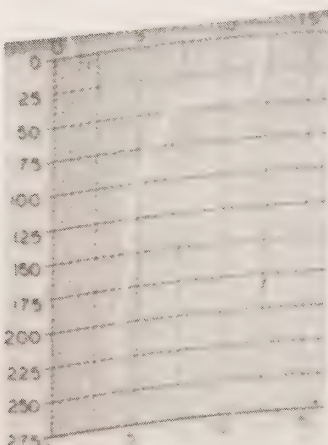
258



259



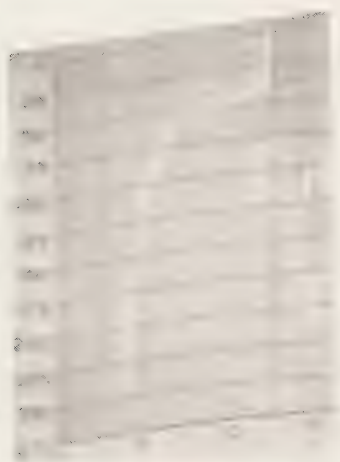
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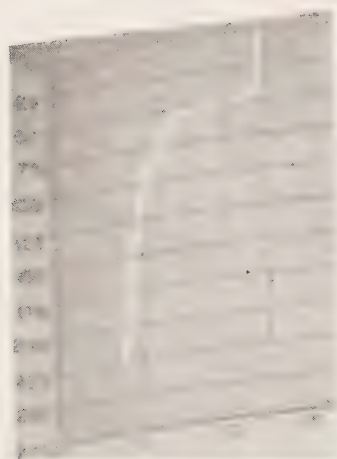
261



262



263



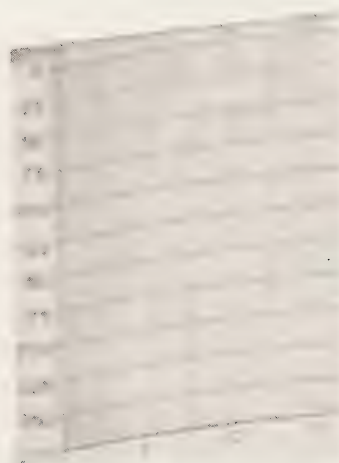
264



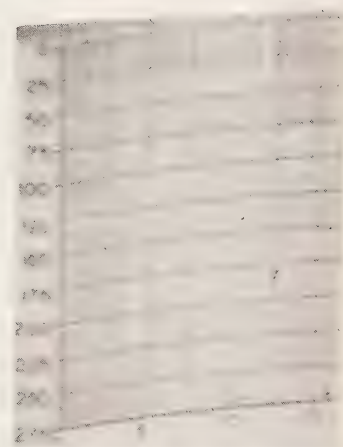
265



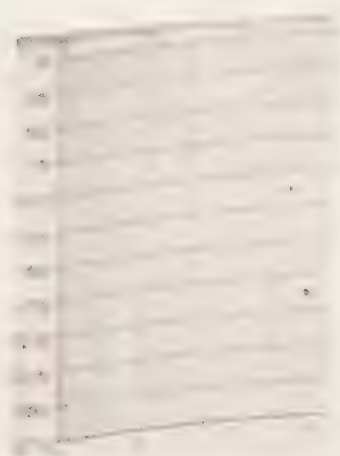
266



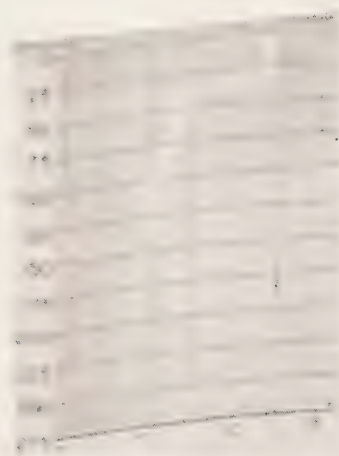
267



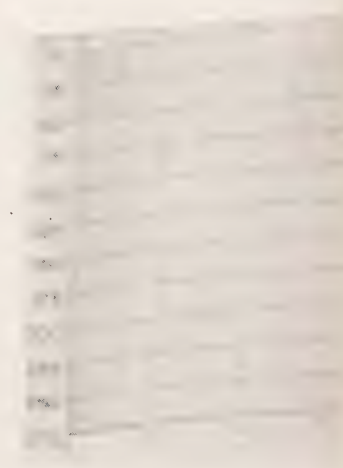
268



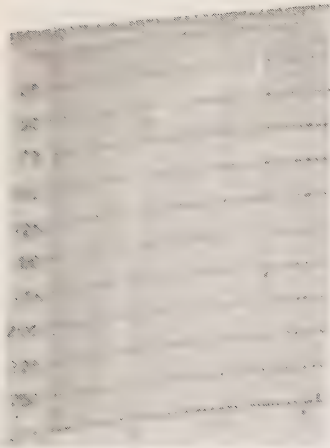
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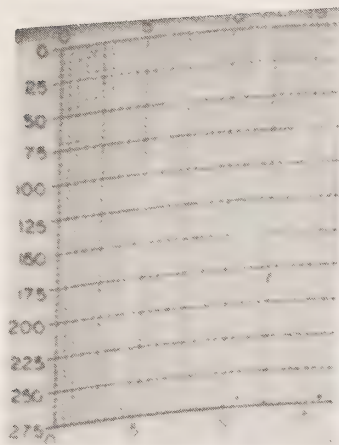
270



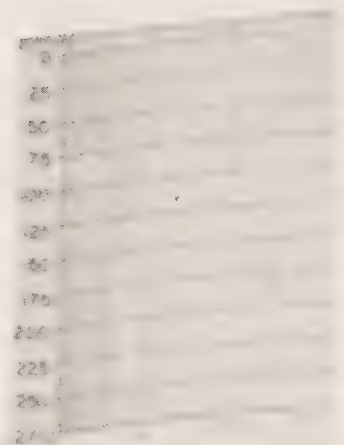
271



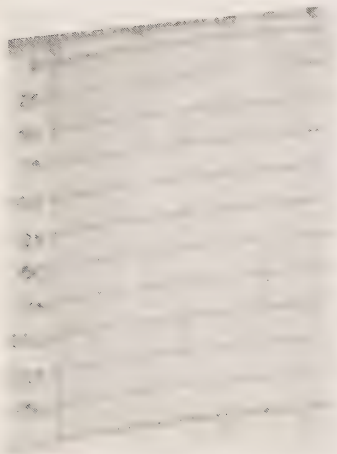
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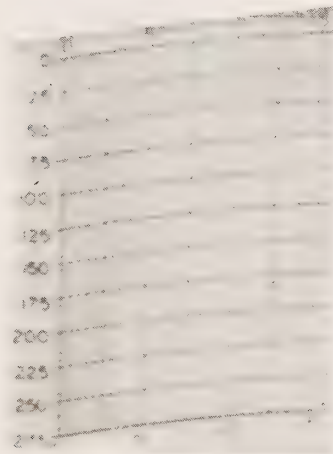
273



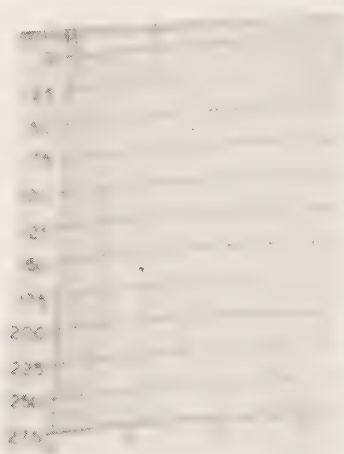
274



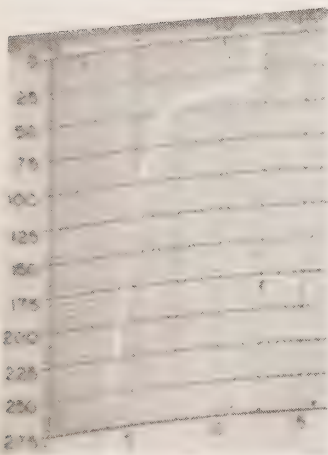
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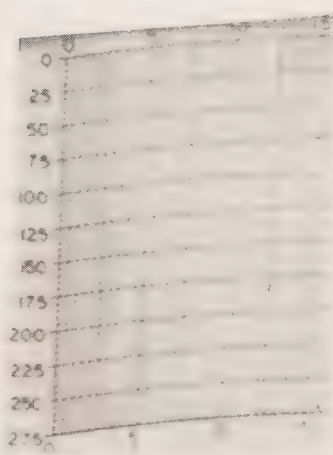
276



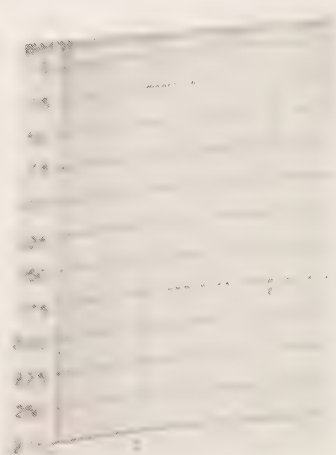
277



278



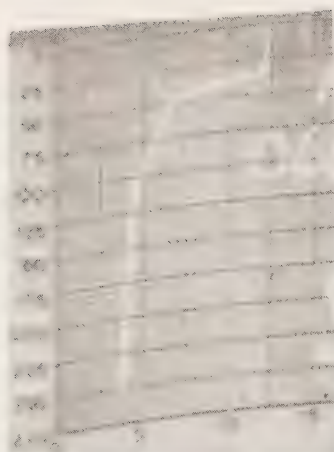
279



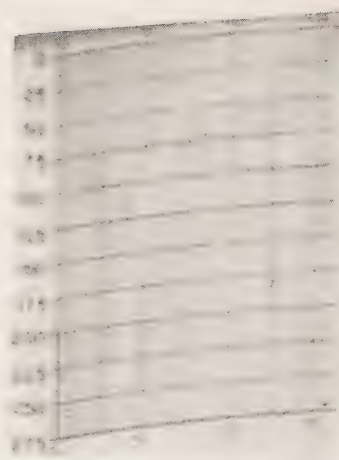
280



281



282



283



284



285



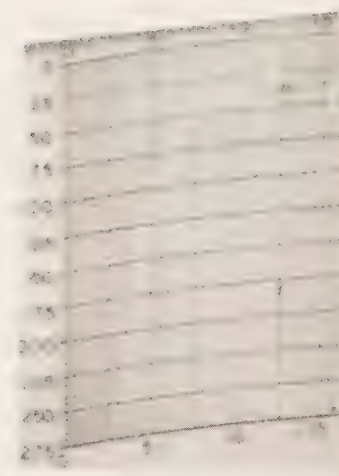
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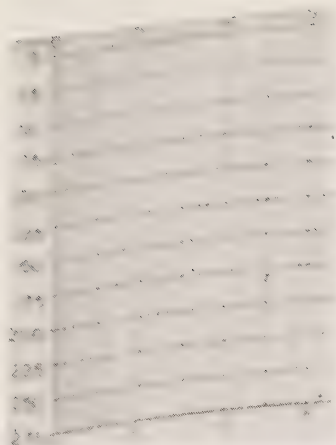
287



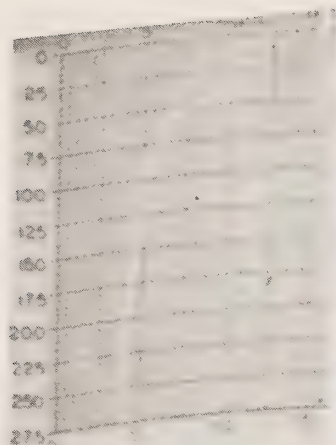
288



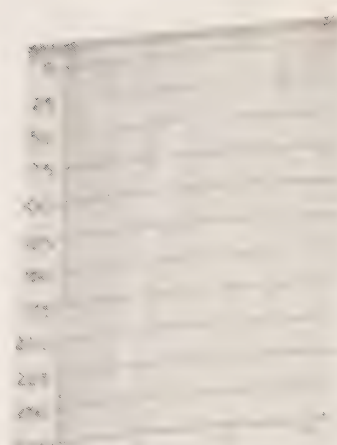
289



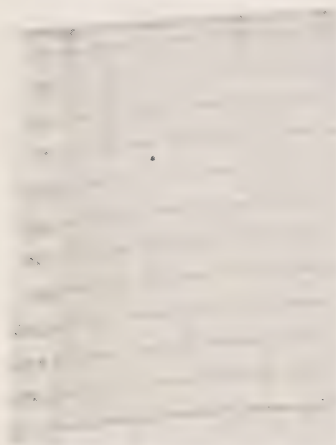
290



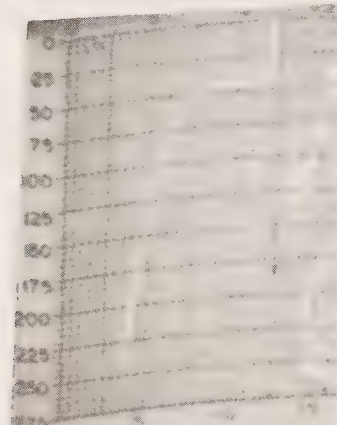
291



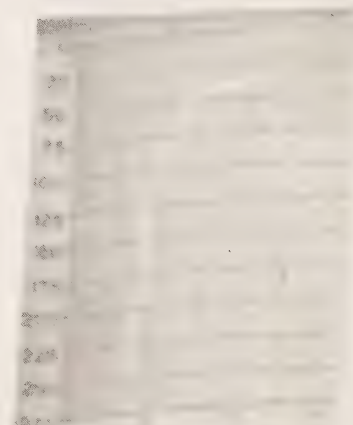
292



293



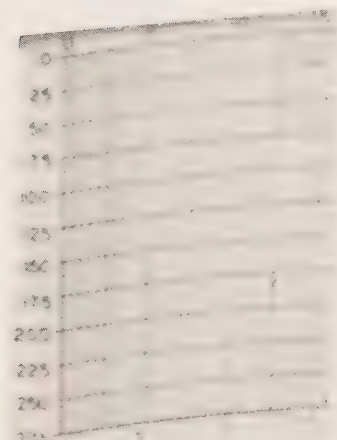
294



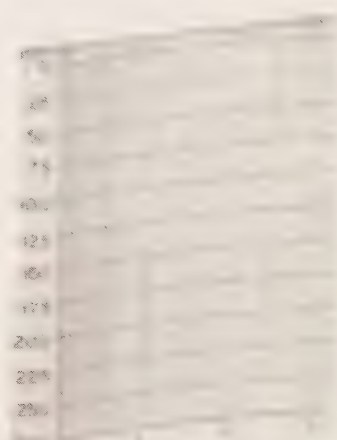
295



296



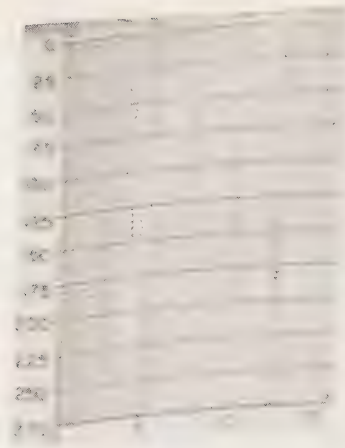
297



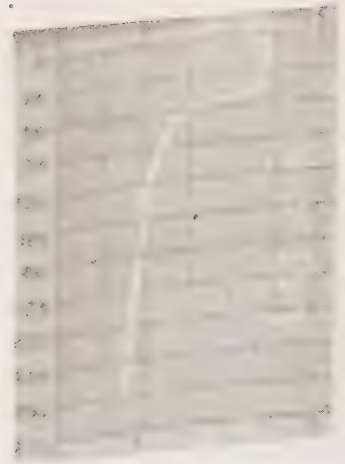
298



299



300



301



302



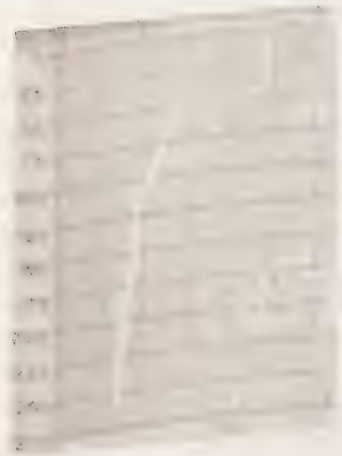
303



304



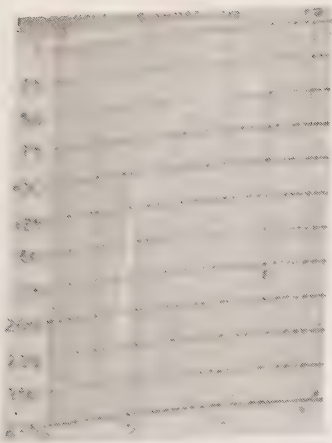
305



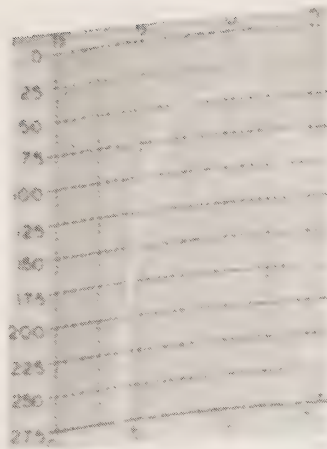
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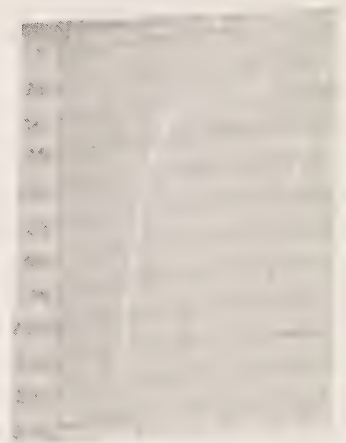
307



308



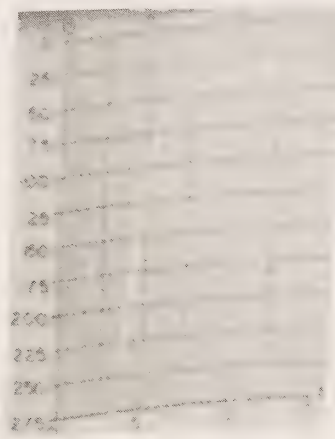
309



310



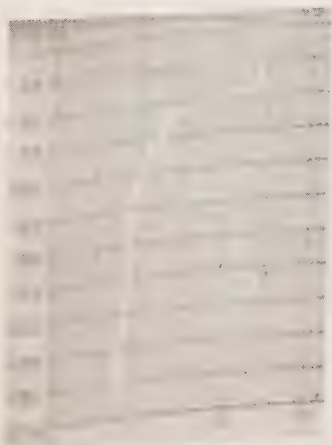
311



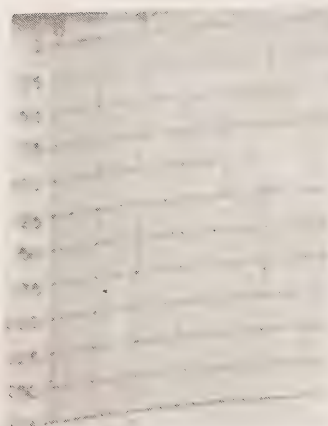
312



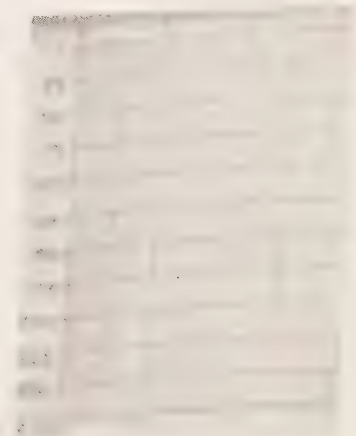
313



314



315



316



317



318



319



320



321



322



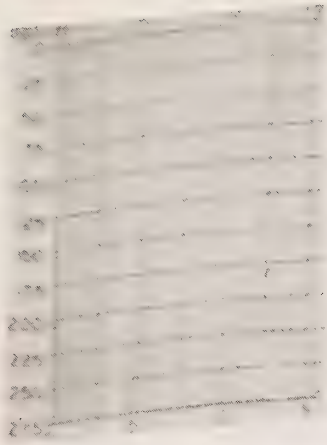
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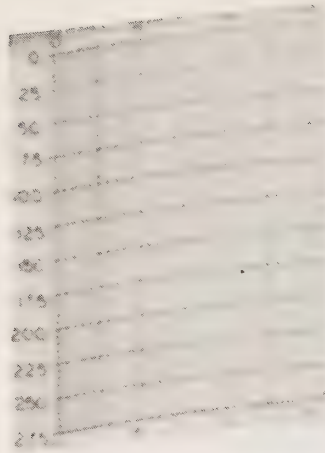
324



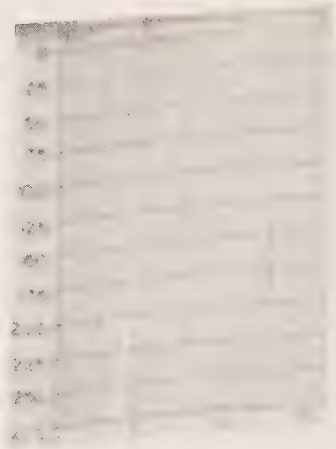
325



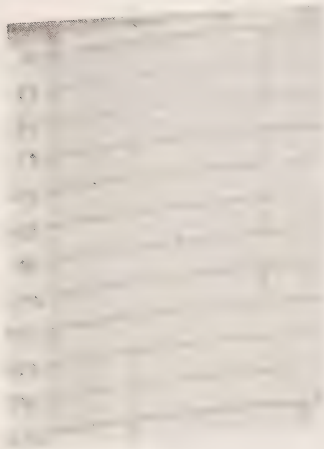
326



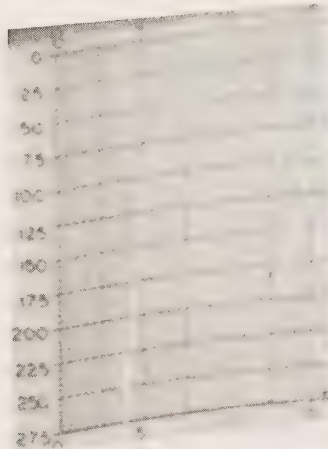
327



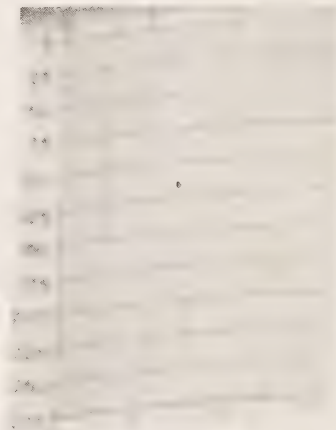
328



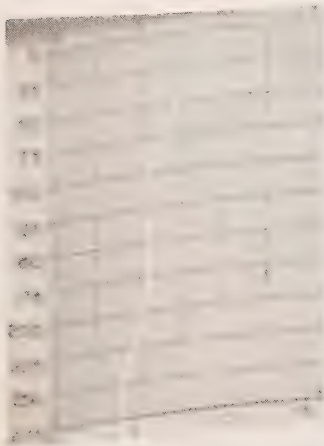
329



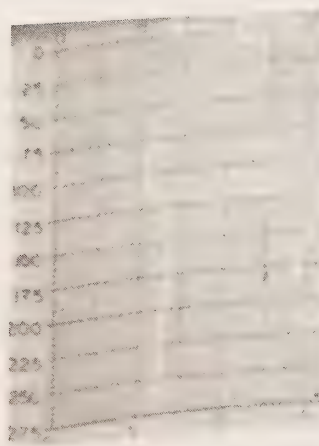
330



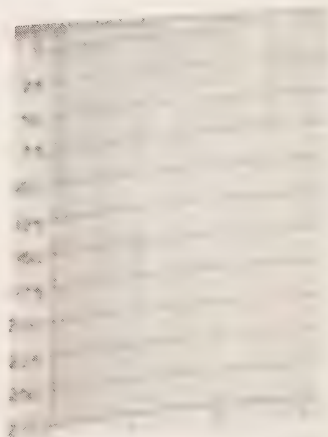
331



332



333



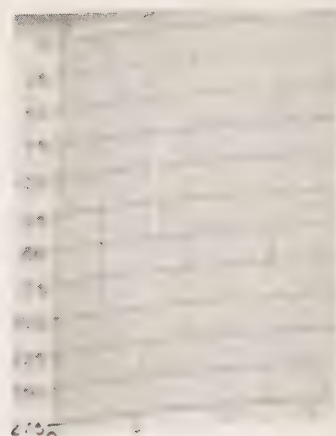
334



335



336



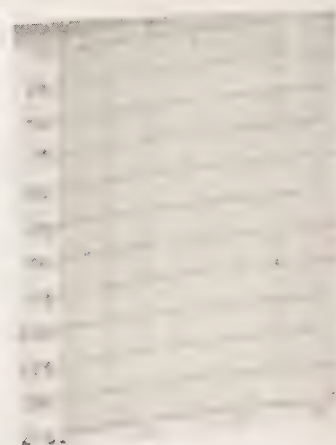
337



338



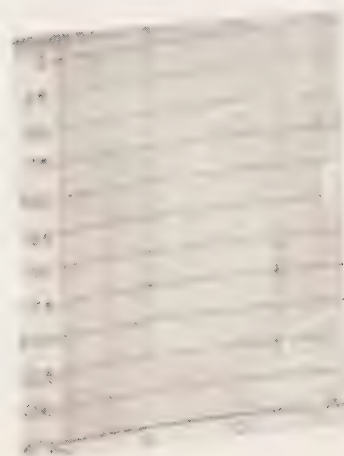
339



340



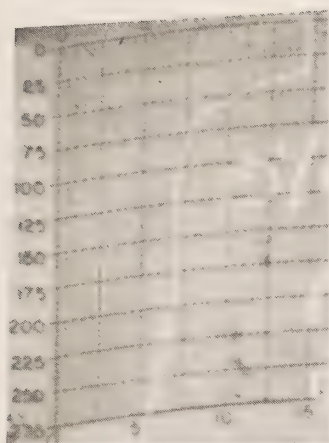
341



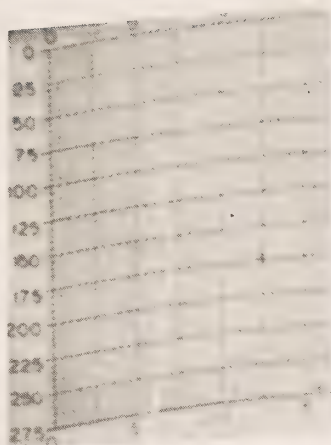
342



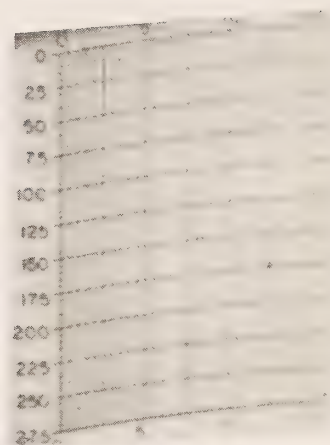
343



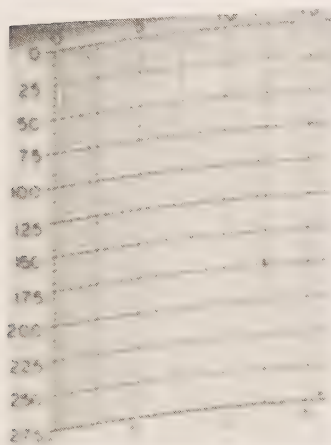
344



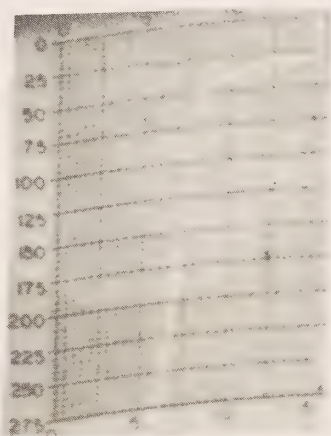
345



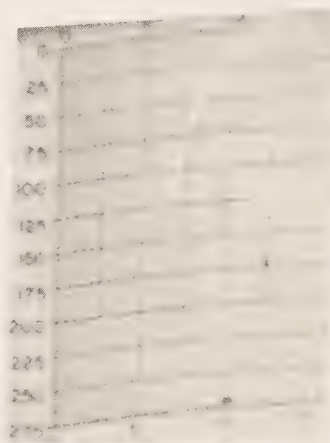
346



347



348



349



350

CCGS "STONETOWN" Patrol No. 71

BATHYTHERMOGRAMS

TABLE 2

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
001	48	33	125	32	16	09	66	23	15	0128	10	02	15	32	43	8	8		
002	48	38	126	00	17	09	66	01	00	0110	09	02	25	32	43	5	8		
003	48	40	126	40	17	09	66	03	15	1300	06	00	20	32	43	0	0		
004	49	53	145	00	21	09	66	18	00	4221	23	02	12	22	27	6	8		
005	49	57	145	06	21	09	66	21	00	4221	23	61	13	23	25	6	8		
006	50	03	144	57	22	09	66	00	00	4221	23	02	17	24	25	7	8		
007	50	05	144	54	22	09	66	03	00	4221	22	02	14	24	25	6	8		
008	50	01	144	53	22	09	66	06	00	4221	22	02	19	2X	2X	6	8		
009	49	57	144	57	22	09	66	09	00	4221	21	61	22	2X	2X	6	8		
010	49	58	144	54	22	09	66	12	00	4221	20	61	34	2X	2X	4	8		
011	50	09	144	59	22	09	66	15	00	4221	19	61	28	2X	2X	4	8		
012	49	54	145	05	23	09	66	12	00	4221	13	21	10	2X	2X	6	8		
013	49	56	145	06	23	09	66	15	00	4221	12	02	12	2X	2X	6	8		
014	49	55	145	10	23	09	66	18	00	4221	12	10	09	23	24	4	8		
015	49	55	145	14	23	09	66	21	00	4221	11	47	11	23	23	8	9		
016	50	02	144	59	24	09	66	00	00	4221	09	45	16	22	23	8	9		
017	49	59	144	59	24	09	66	03	00	4221	07	51	08	22	23	7	8		
018	49	58	145	02	24	09	66	06	00	4221	06	51	00	2X	2X	7	8		
019	49	54	145	05	24	09	66	09	00	4221	05	02	04	2X	2X	7	8		
020	50	04	144	56	24	09	66	12	00	4221	04	51	11	2X	2X	7	8		
021	50	04	144	52	24	09	66	15	00	4221	03	02	10	2X	2X	7	7		
022	50	04	144	50	24	09	66	18	00	4221	01	02	16	22	2X	7	8		
023	50	09	144	49	24	09	66	21	00	4221	00	61	18	23	2X	7	8		
024	50	00	145	04	25	09	66	00	00	4221	00	21	14	22	23	7	8		
025	50	03	145	04	25	09	66	03	00	4221	00	01	10	22	22	8	2		

TABLE 2

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
026	50	03	145	01	25	09	66	06	00	4221	00	03	12	2X		2X		6	7
027	50	05	144	58	25	09	66	09	00	4221	01	02	18	2X		2X		6	6
028	49	55	145	04	25	09	66	12	00	4221	00	02	24	2X		2X		6	8
029	50	02	145	02	25	09	66	15	00	4221	00	02	19	2X		2X		6	5
030	50	05	145	05	25	09	66	18	00	4221	00	02	17	23		24		0	4
031	50	10	145	04	25	09	66	21	00	4221	-99	02	23	24		25		7	8
032	50	05	145	04	26	09	66	00	00	4221	-94	61	34	24		25		4	8
033	50	03	144	58	27	09	66	18	00	4221	04	01	22	25		2X			0
034	49	56	145	01	27	09	66	21	00	4221	07	02	21	25		2X		8	1
035	49	55	145	00	28	09	66	00	00	4221	09	02	23	24		25		0	1
036	49	58	144	55	28	09	66	03	00	4221	10	02	13	23		25		6	6
037	49	59	144	55	28	09	66	06	00	4221	13	02	16	2X		2X		6	5
038	50	01	145	00	28	09	66	09	00	4221	15	02	13	2X		2X			0
039	49	55	145	16	28	09	66	12	00	4221	16	02	10	2X		2X			0
040	50	01	144	59	28	09	66	15	00	4221	17	45	04	2X		2X		8	9
041	50	05	144	52	28	09	66	18	00	4221	17	45	03	20		26		8	9
042	50	03	145	01	28	09	66	21	00	4221	18	02	13	21		25		7	8
043	49	59	145	06	29	09	66	00	00	4221	15	61	21	22		22		7	8
044	49	57	145	10	29	09	66	03	00	4221	10	61	26	22		24		7	8
045	50	02	144	56	29	09	66	06	00	4221	08	61	23	2X		2X		7	8
046	50	02	144	57	29	09	66	09	00	4221	07	10	27	2X		2X		7	8
047	50	02	144	56	29	09	66	12	00	4221	07	10	26	2X		2X		7	8
048	50	05	144	58	29	09	66	15	00	4221	06	02	30	2X		2X		6	8
049	49	47	145	20	30	09	66	00	00	4221	18	02	12	20		25		6	8
050	49	52	145	11	30	09	66	03	00	4221	19	02	11	20		25		6	7

TABLE 2

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Aml	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
051	50	02	145	01	30	09	66	06	00	4221	21	02	13	2X		2X		6	7
052	50	01	144	58	30	09	66	09	00	4221	21	02	13	2X		2X		6	8
053	49	59	144	56	30	09	66	12	00	4221	21	61	13	2X		2X		6	8
054	49	56	145	01	30	09	66	15	00	4221	20	61	14	2X		2X		6	8
055	49	58	145	02	30	09	66	18	00	4221	19	61	24	22		24		4	8
056	50	11	144	57	30	09	66	21	00	4221	17	61	24	22		24		7	8
057	50	13	144	47	01	10	66	00	00	4221	17	02	18	22		24		6	8
058	50	06	144	52	01	10	66	03	00	4221	17	50	18	22		24		7	8
059	50	01	144	59	01	10	66	06	00	4221	18	10	11	2X		2X		7	8
060	50	00	145	00	01	10	66	09	00	4221	18	61	09	2X		2X		7	8
061	50	04	145	11	01	10	66	12	00	4221	18	51	12	2X		2X		7	8
062	50	06	145	09	01	10	66	15	00	4221	18	10	09	2X		2X		7	8
063	50	07	145	07	01	10	66	18	00	4221	18	51	11	22		24		7	8
064	50	08	145	05	01	10	66	21	00	4221	19	47	11	22		24		8	9
065	49	57	144	56	02	10	66	00	00	4221	18	28	14	23		23		7	8
066	50	02	144	59	02	10	66	03	00	4221	18	02	10	23		22		6	7
067	50	06	144	59	02	10	66	06	00	4221	18	02	13	2X		2X		6	8
068	50	09	144	56	02	10	66	09	00	4221	17	10	12	2X		2X		7	8
069	49	56	144	57	02	10	66	12	00	4221	16	10	13	2X		2X		7	8
070	50	00	144	58	02	10	66	15	00	4221	15	10	15	2X		2X		7	8
071	50	04	145	00	02	10	66	18	00	4221	15	45	13	22		24		8	9
072	50	07	144	58	02	10	66	21	00	4221	15	45	12	23		24		8	9
073	49	57	145	06	03	10	66	00	00	4221	14	47	12	23		24		8	9
074	50	02	145	01	03	10	66	03	00	4221	12	02	10	22		24		7	8
075	49	57	145	04	03	10	66	06	00	4221	12	02	12	2X		2X		6	8

TABLE 2

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
076	50	00	145	02	03	10	66	09	00	4221	11	51	08	2X		2X		7	8
077	49	58	145	06	03	10	66	12	00	4221	09	28	07	2X		2X		7	8
078	50	02	145	04	03	10	66	15	00	4221	07	10	08	2X		2X		7	8
079	50	04	145	01	03	10	66	18	00	4221	06	21	18	23		24		7	8
080	50	09	145	03	03	10	66	21	00	4221	04	45	11	23		25		8	9
081	49	58	145	00	04	10	66	00	00	4221	02	61	17	23		24		4	8
082	50	02	144	55	04	10	66	03	00	4221	01	47	11	21		23		8	9
083	50	05	144	56	04	10	66	06	00	4221	02	10	19	2X		2X		7	8
084	50	00	144	50	04	10	66	09	00	4221	04	61	25	2X		2X		7	8
085	50	02	144	53	04	10	66	12	00	4221	06	02	32	2X		2X		6	8
086	50	00	144	58	05	10	66	00	00	4221	10	02	26	26		23		6	6
087	50	03	145	01	05	10	66	03	00	4221	11	02	28	26		2X		6	7
088	50	10	145	02	05	10	66	06	00	4221	12	02	17	2X		2X		6	7
089	50	02	145	02	05	10	66	09	00	4221	12	02	13	2X		2X		6	7
090	50	06	145	00	05	10	66	12	00	4221	11	02	11	2X		2X		6	8
091	50	04	144	54	05	10	66	15	00	4221	11	02	14	2X		2X		6	8
092	50	04	144	51	05	10	66	18	00	4221	11	02	14	23		22		6	7
093	50	08	144	47	05	10	66	21	00	4221	10	02	22	24		23		6	8
094	50	02	144	52	06	10	66	00	00	4221	09	10	30	24		22		7	8
095	49	58	144	58	06	10	66	03	00	4221	08	02	24	24		23		7	8
096	49	52	145	05	06	10	66	06	00	4221	08	61	16	2X		2X		7	8
097	49	54	145	01	06	10	66	09	00	4221	08	21	05	2X		2X		7	8
098	49	57	144	58	06	10	66	12	00	4221	06	21	09	2X		2X		7	8
099	49	59	144	56	06	10	66	15	00	4221	04	51	13	2X		2X		7	8
100	50	00	144	55	06	10	66	18	00	4221	02	45	16	24		22		8	9

TABLE 2

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Aml	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
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102	49	59	145	10	09	10	66	18	00	4221	23	02	24	26	28	6	6		
103	50	01	144	55	09	10	66	21	00	4221	24	02	14	24	27	8	5		
104	49	59	144	48	10	10	66	00	00	4221	24	01	20	24	25	8	2		
105	50	00	144	54	10	10	66	03	00	4221	25	02	20	24	24	8	3		
106	50	01	145	03	10	10	66	06	00	4221	25	02	23	2X	2X			0	
107	50	01	145	04	10	10	66	09	00	4221	26	02	22	2X	2X	6	3		
108	50	03	144	55	10	10	66	12	00	4221	25	25	25	2X	2X	6	2		
109	50	04	144	59	10	10	66	15	00	4221	26	02	27	2X	2X	7	2		
110	50	03	145	12	10	10	66	18	00	4221	27	02	23	24	2X	6	2		
111	50	02	145	00	10	10	66	21	00	4221	28	02	17	24	2X	6	6		
112	50	02	144	55	11	10	66	00	00	4221	28	02	20	24	25	6	8		
113	50	01	145	03	11	10	66	03	00	4221	28	02	20	24	25	6	8		
114	50	03	145	14	11	10	66	06	00	4221	29	02	19	2X	2X	6	8		
115	49	57	145	05	11	10	66	09	00	4221	29	02	13	2X	2X	6	8		
116	49	59	145	04	11	10	66	12	00	4221	28	02	23	2X	2X	6	8		
117	49	58	145	06	11	10	66	15	00	4221	28	02	16	2X	2X	6	8		
118	50	00	145	12	11	10	66	18	00	4221	29	61	16	24	23	6	8		
119	49	57	144	55	11	10	66	21	00	4221	29	02	14	24	2X	6	8		
120	49	59	144	49	12	10	66	00	00	4221	29	02	16	24	2X	6	8		
121	50	00	145	05	12	10	66	03	00	4221	29	02	12	24	2X	6	8		
122	50	02	145	03	12	10	66	06	00	4221	29	02	04	2X	2X	6	8		
123	49	58	145	00	12	10	66	09	00	4221	28	02	08	2X	2X	6	8		
124	50	01	144	58	12	10	66	12	00	4221	26	02	11	2X	2X	6	8		
125	50	03	144	55	12	10	66	15	00	4221	23	02	16	2X	2X	6	8		

TABLE 2

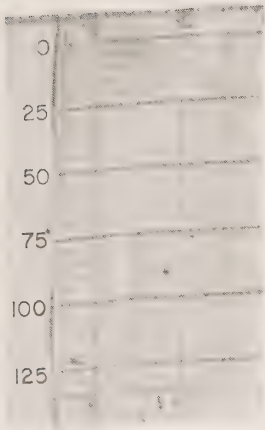
CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
126	50	00	144	37	13	10	66	21	00	4221	21	02	17	25	26	6	6		
127	50	01	144	33	14	10	66	00	00	4221	23	80	24	25	23	8	7		
128	50	00	144	45	14	10	66	03	00	4221	25	02	22	24	2X	8	6		
129	49	58	145	00	14	10	66	06	00	4221	27	02	18	2X	2X	6	8		
130	50	02	144	50	14	10	66	09	00	4221	29	02	15	2X	2X	6	8		
131	50	00	144	52	14	10	66	12	00	4221	30	02	20	2X	2X	6	8		
132	49	59	144	57	14	10	66	15	00	4221	30	02	17	2X	2X	6	8		
133	49	56	145	12	14	10	66	18	00	4221	30	02	18	24	2X	6	8		
134	50	00	145	09	14	10	66	21	00	4221	29	02	14	22	24	6	8		
135	50	04	145	01	15	10	66	00	00	4221	25	02	18	23	24	6	8		
136	50	09	144	59	15	10	66	03	00	0000	20	61	26	24	25	6	8		
137	49	58	145	12	21	10	66	03	00	4221	08	02	19	29	2X	6	8		
138	50	05	145	20	21	10	66	06	00	4221	06	02	08	2X	2X	6	8		
139	49	59	145	07	21	10	66	09	00	4221	05	02	09	2X	2X	6	8		
140	50	02	144	56	21	10	66	12	00	4221	02	21	06	2X	2X	6	8		
141	50	03	145	06	21	10	66	15	00	4221	00	02	08	2X	2X	6	8		
142	50	01	145	05	21	10	66	18	00	4221	00	61	09	22	24	6	8		
143	50	05	145	15	21	10	66	21	00	4221	00	61	08	22	24	6	8		
144	49	59	145	01	22	10	66	00	00	4221	00	21	11	23	26	6	8		
145	49	59	145	00	22	10	66	03	00	4221	-99	61	16	23	26	6	8		
146	49	58	145	02	22	10	66	06	00	4221	-99	61	15	2X	2X	6	8		
147	49	55	145	07	22	10	66	09	00	4221	-98	61	16	2X	2X	7	8		
148	49	56	145	10	22	10	66	12	00	4221	-96	61	28	2X	2X	7	8		
149	50	04	145	03	22	10	66	15	00	4221	-96	02	35	2X	2X	6	8		
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TABLE 2

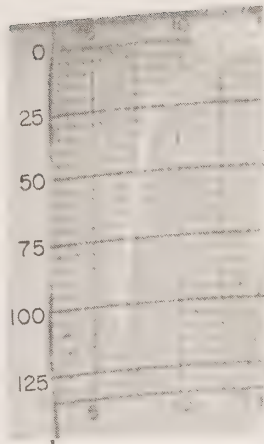
CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Amt	W 1		W 2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
151	49	58	145	00	22	10	66	21	00	4221	-99	61	20	25	26	7	8		
152	49	50	145	03	23	10	66	00	00	4221	-99	61	18	24	25	7	8		
153	49	59	145	04	23	10	66	03	00	4221	00	61	23	24	24	7	8		
154	50	07	145	01	23	10	66	06	00	4221	01	02	14	2X	2X	6	8		
155	50	03	144	58	23	10	66	09	00	4221	01	02	06	2X	2X	6	8		
156	50	01	145	00	23	10	66	12	00	4221	00	21	10	2X	2X	6	8		
157	49	57	144	59	23	10	66	15	00	4221	01	02	18	2X	2X	6	8		
158	49	59	145	02	23	10	66	18	00	4221	02	02	21	23	23	8	7		
159	50	02	145	04	23	10	66	21	00	4221	04	02	19	23	22	8	6		
160	49	56	145	01	24	10	66	00	00	4221	06	02	24	25	23	6	8		
162	50	05	145	15	24	10	66	06	00	4221	12	02	16	2X	2X	6	6		
163	50	00	145	05	24	10	66	09	00	4221	15	02	18	2X	2X		0		
164	49	57	145	07	24	10	66	12	00	4221	17	02	20	2X	2X		0		
165	50	02	145	10	24	10	66	15	00	4221	19	02	13	2X	2X	6	2		
166	50	03	145	17	24	10	66	18	00	4221	20	02	15	23	25	9	3		
167	50	00	145	00	24	10	66	21	00	4221	22	16	16	23	24	8	3		
168	49	58	145	06	25	10	66	00	00	4221	22	01	18	23	24	8	3		
169	50	02	145	03	25	10	66	03	00	4221	22	02	12	22	24	8	2		
170	49	57	144	59	25	10	66	06	00	4221	23	02	04	2X	2X	8	2		
171	49	55	144	56	25	10	66	09	00	4221	23	02	06	2X	2X	8	2		
172	49	55	144	49	25	10	66	12	00	4221	23	02	05	2X	2X	8	2		
173	49	50	144	53	25	10	66	15	00	4221	23	02	04	2X	2X	8	1		
174	49	49	144	52	25	10	66	18	00	4221	23	03	03	20	23	8	3		
175	49	49	144	49	25	10	66	21	00	4221	23	80	06	20	23	8	6		
176	49	49	144	52	26	10	66	00	00	4221	22	02	00	20	23	8	3		

TABLE 2

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Amf	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
177	49	58	145	04	26	10	66	03	00	4221	21	01	05	20	23	8	2		
178	49	56	145	03	26	10	66	06	00	4221	21	02	05	2X	2X	8	2		
179	49	58	145	06	26	10	66	09	00	4221	20	02	12	2X	2X	8	4		
180	50	01	145	07	26	10	66	12	00	4221	19	03	12	2X	2X	8	5		
181	50	02	145	06	26	10	66	15	00	4221	17	02	17	2X	2X	6	8		
182	50	01	145	03	26	10	66	18	00	4221	16	21	25	21	24	8	7		
183	49	58	145	05	26	10	66	21	00	4221	13	51	27	23	24	6	8		
184	50	08	145	08	27	10	66	00	00	4221	09	61	33	25	24	7	8		
185	49	48	144	53	27	10	66	12	00	4221	-97	02	15	2X	2X	8	6		
186	50	02	145	03	27	10	66	18	00	4221	-96	80	22	24	24	8	7		
187	50	10	145	03	27	10	66	21	00	4221	-96	25	20	25	26	8	6		
188	49	50	145	20	28	10	66	18	00	4221	-87	61	11	25	26	6	8		
189	50	00	145	10	28	10	66	21	00	4221	-85	61	04	20	24	6	8		
190	50	05	145	08	29	10	66	00	00	4221	-85	02	12	23	26	6	7		
191	50	03	145	03	29	10	66	03	00	4221	-85	02	21	25	2X	6	7		
192	50	02	145	02	29	10	66	06	00	4221	-88	51	22	2X	2X	7	8		
193	50	01	145	02	30	10	66	18	00	4221	13	45	13	22	26	8	9		
194	50	03	145	06	30	10	66	21	00	4221	11	45	16	23	25	8	9		



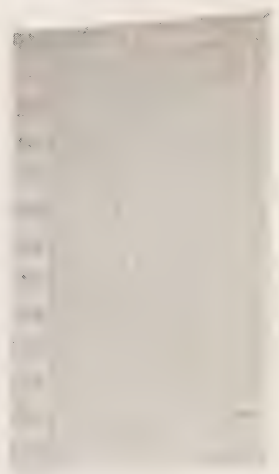
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2



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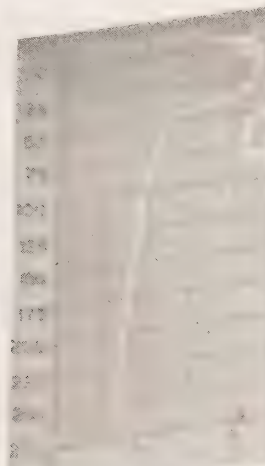
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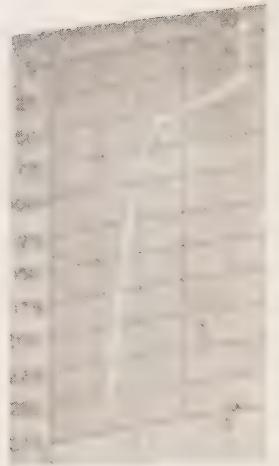
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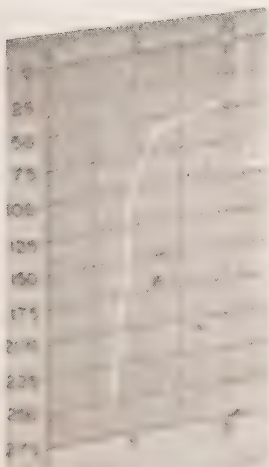
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7



8



9



10



11



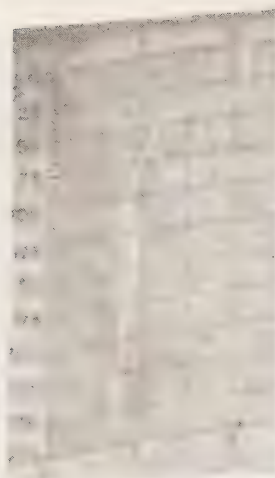
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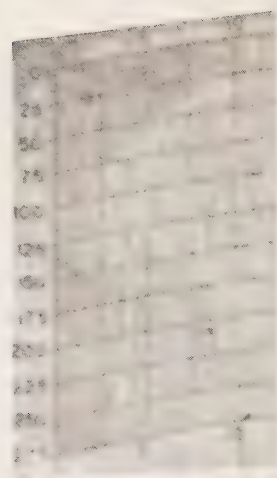
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14



15



16



17



18



19



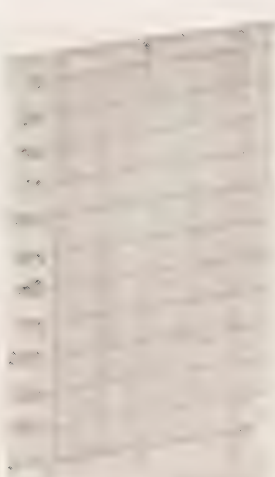
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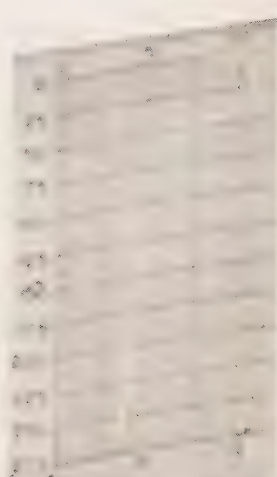
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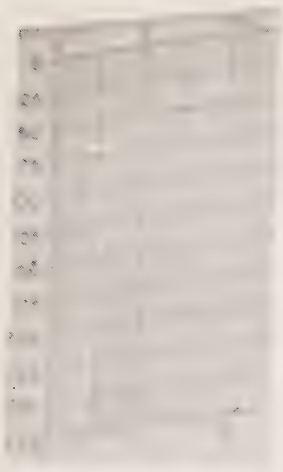
22



23



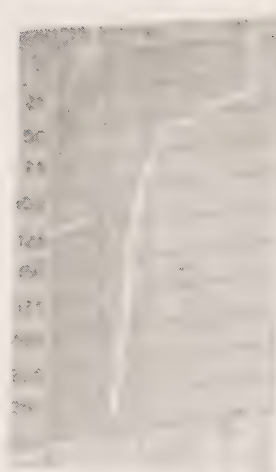
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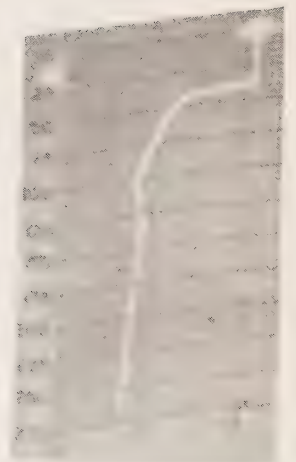
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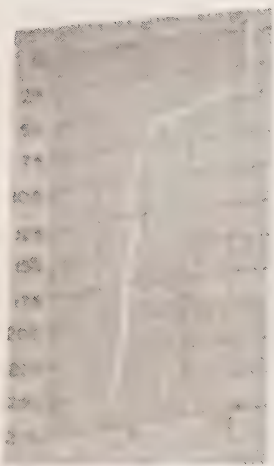
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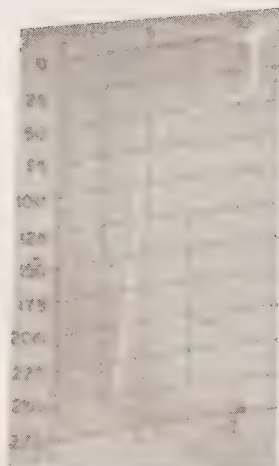
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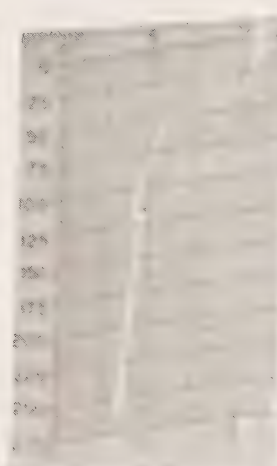
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29



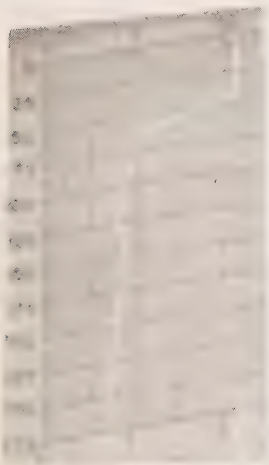
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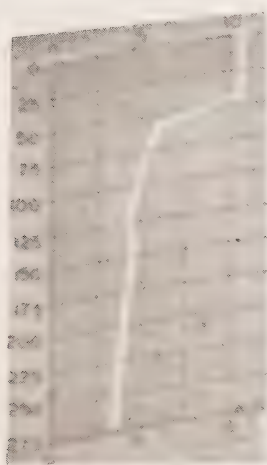
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32



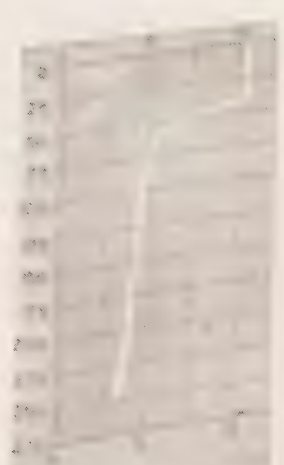
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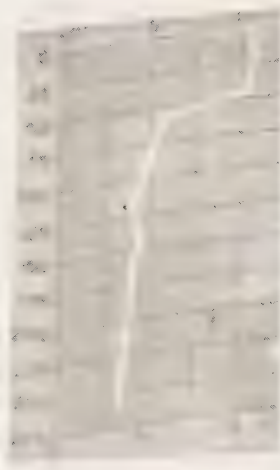
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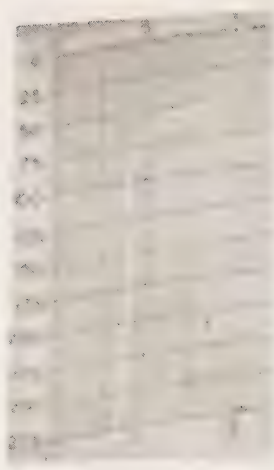
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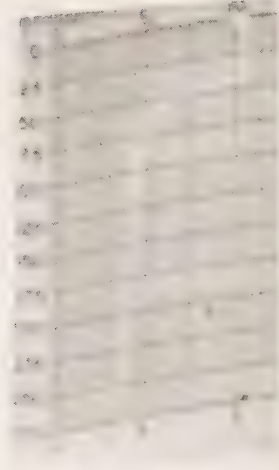
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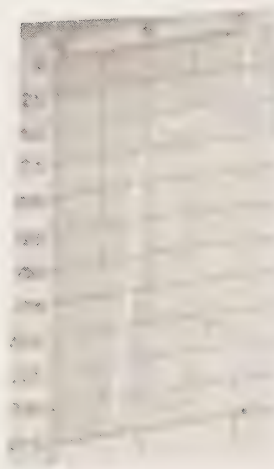
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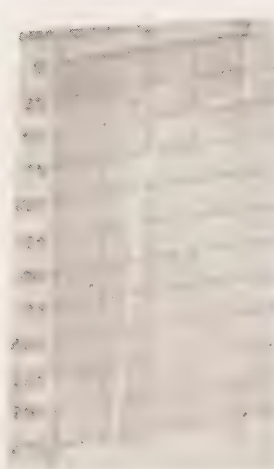
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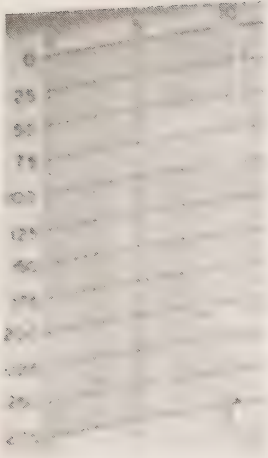
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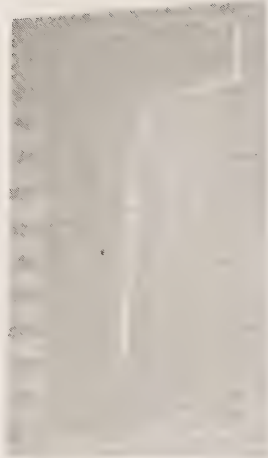
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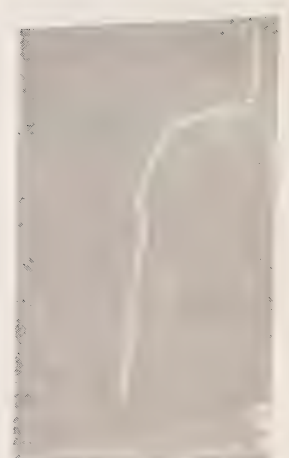
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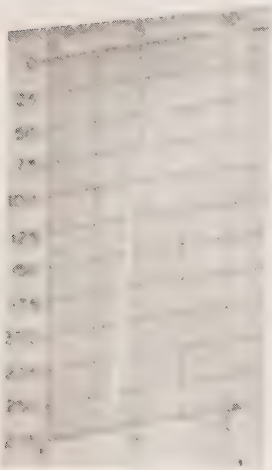
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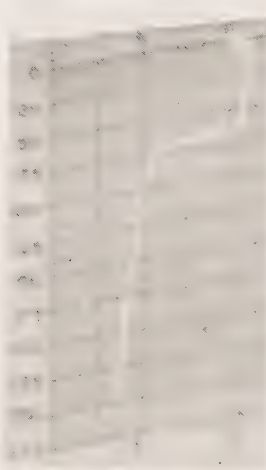
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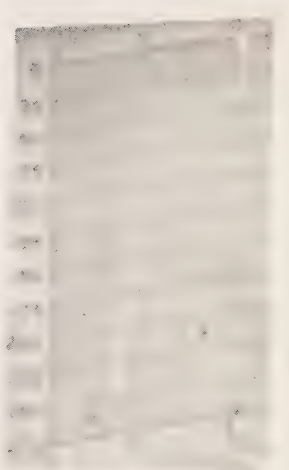
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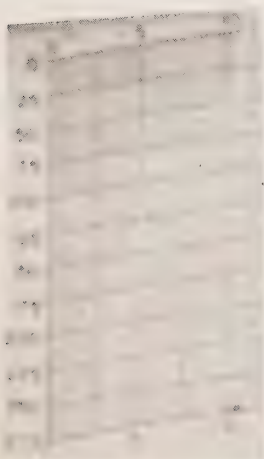
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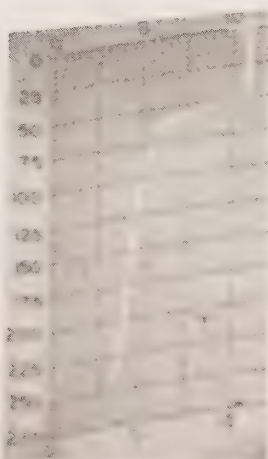
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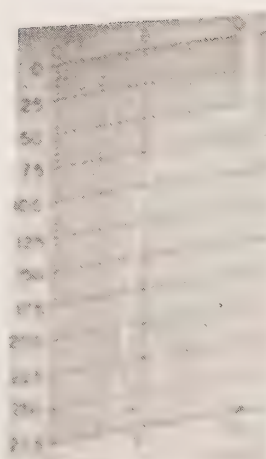
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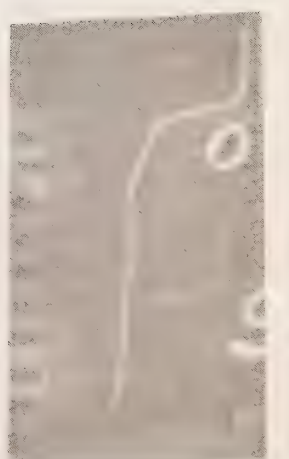
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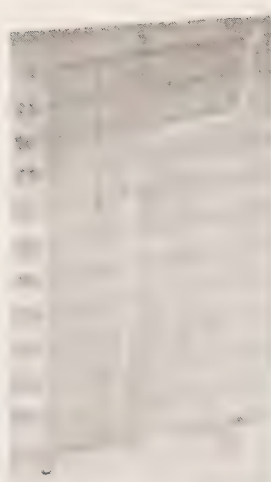
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63



64



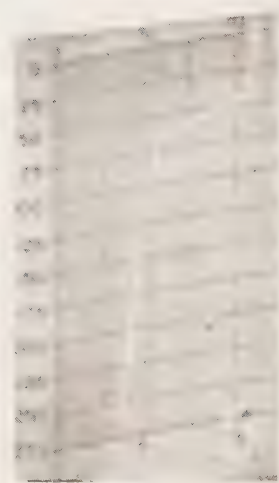
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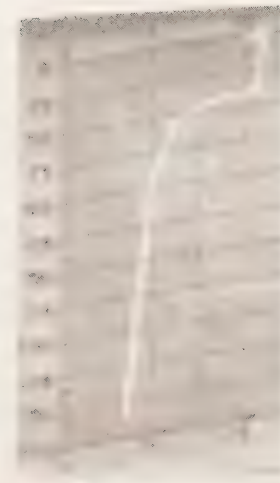
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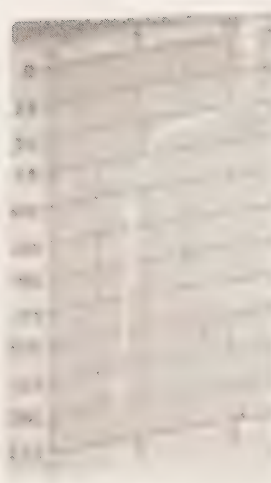
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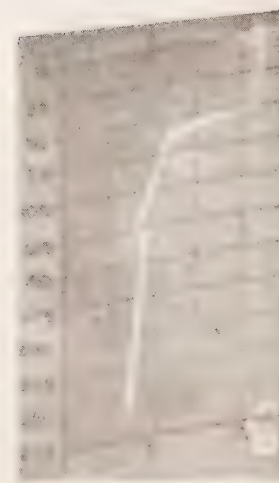
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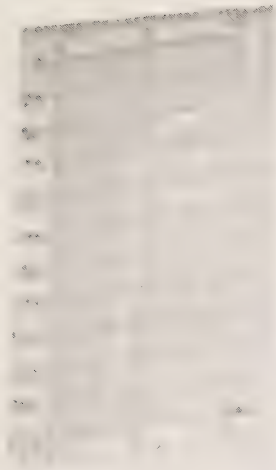
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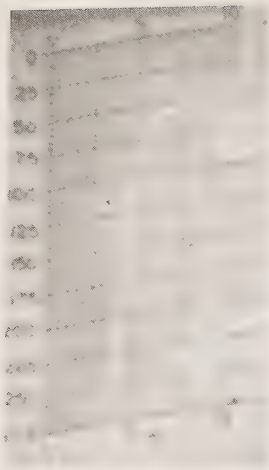
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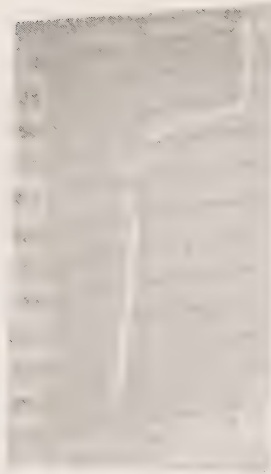
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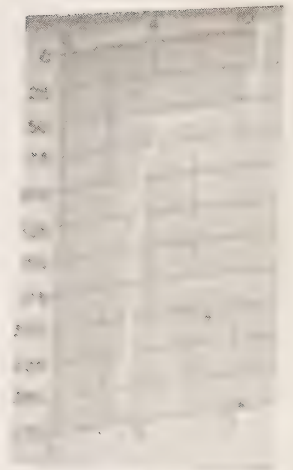
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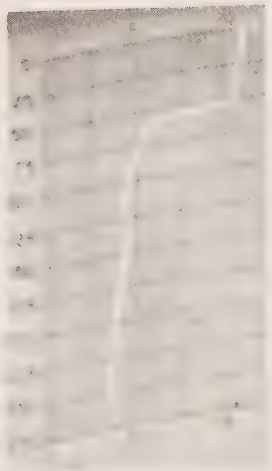
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75



76



77



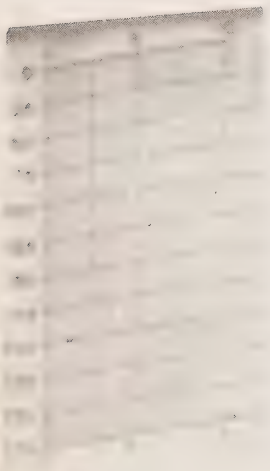
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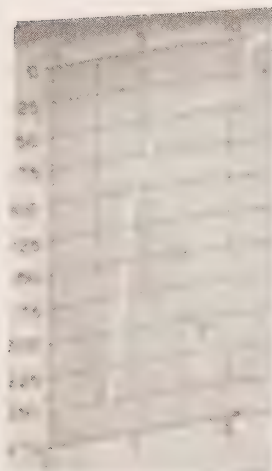
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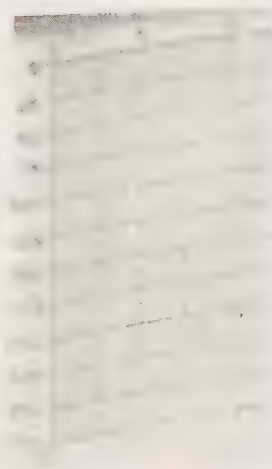
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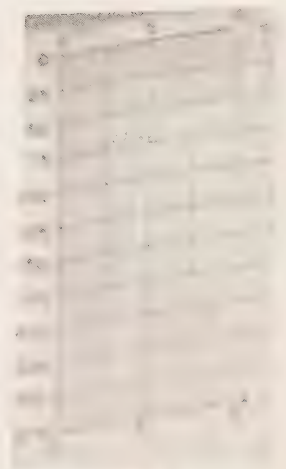
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82



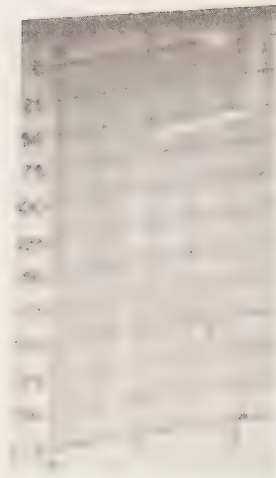
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84



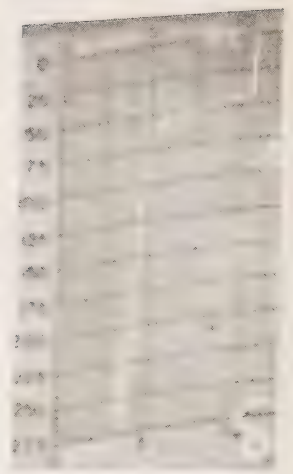
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86



87



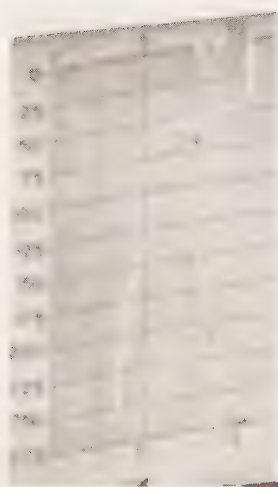
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89



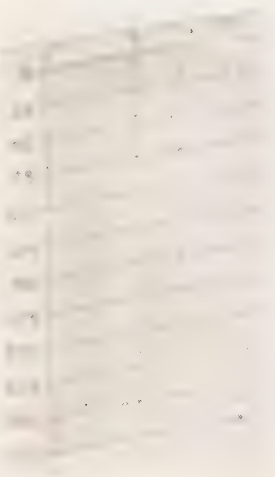
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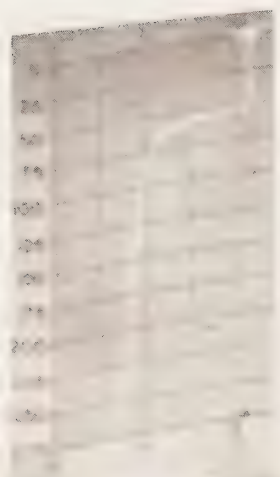
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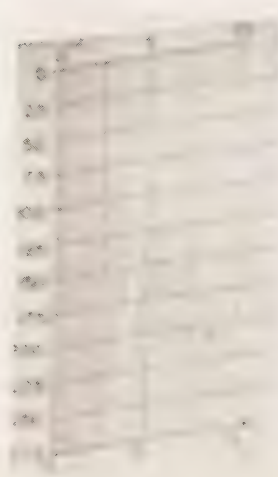
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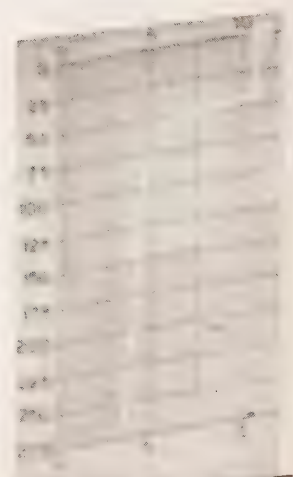
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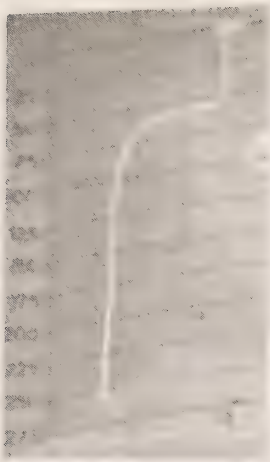
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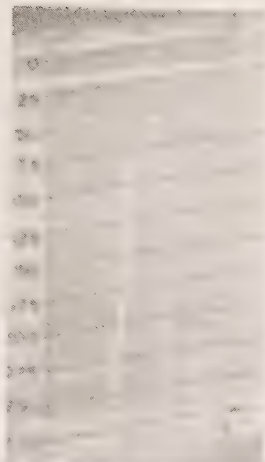
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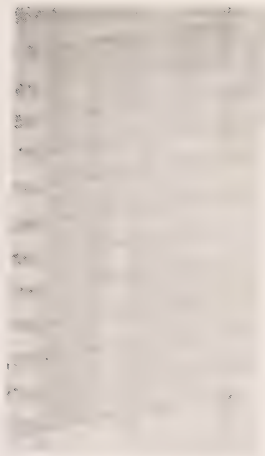
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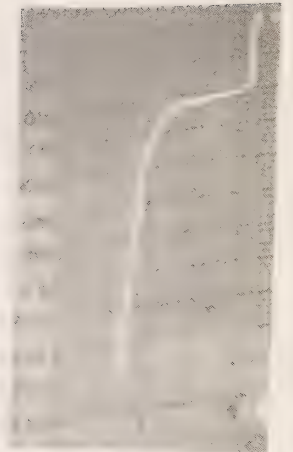
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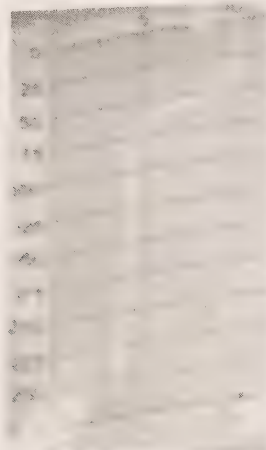
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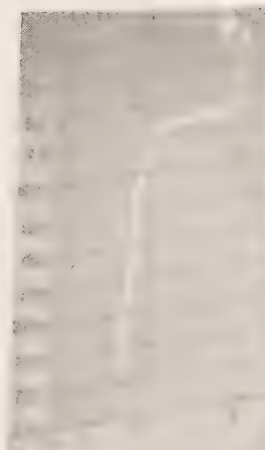
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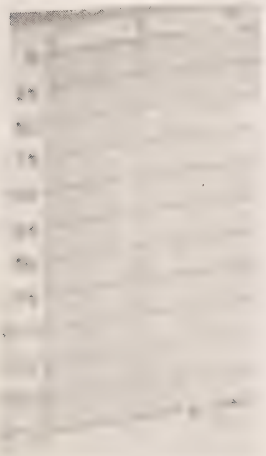
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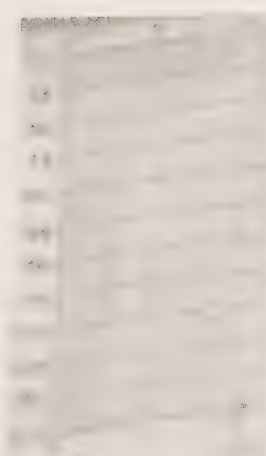
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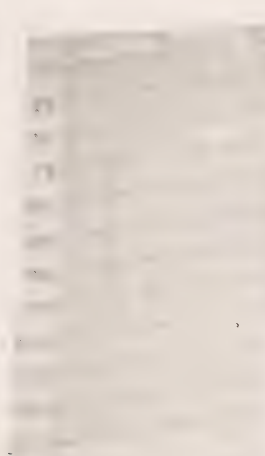
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105



106



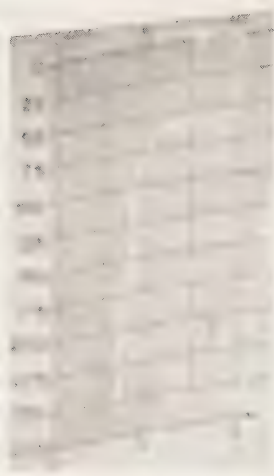
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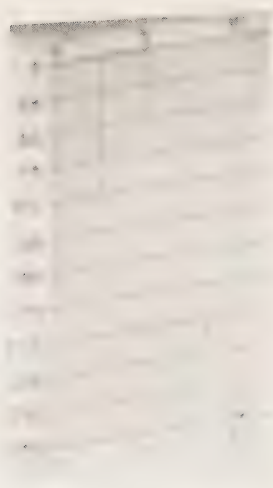
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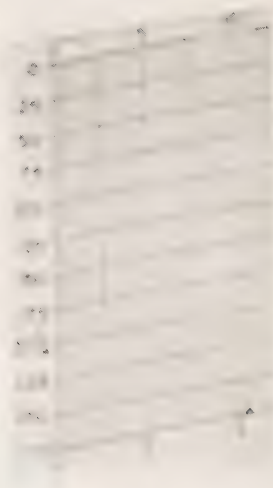
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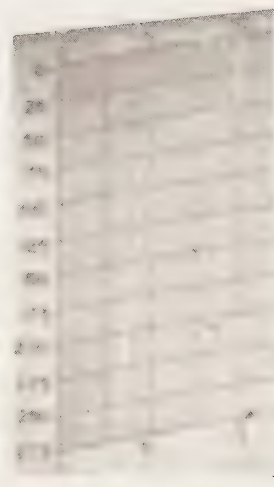
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112



113



114



115



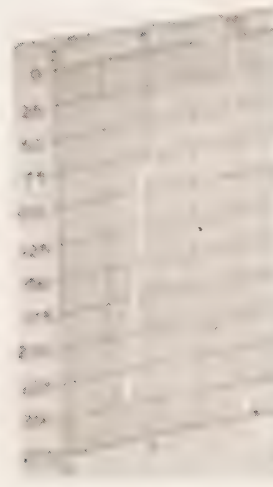
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117



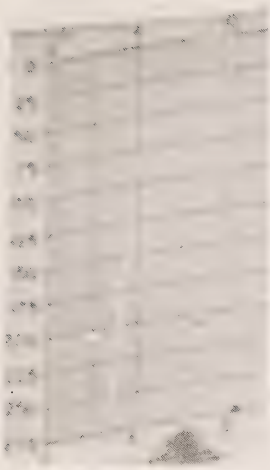
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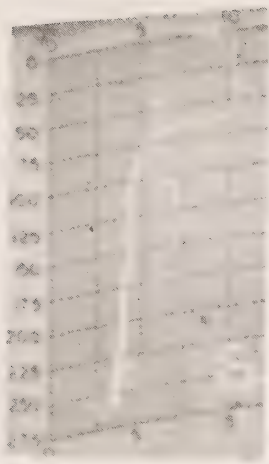
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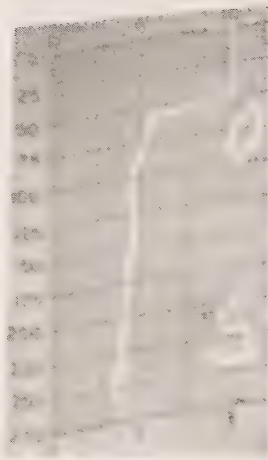
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121



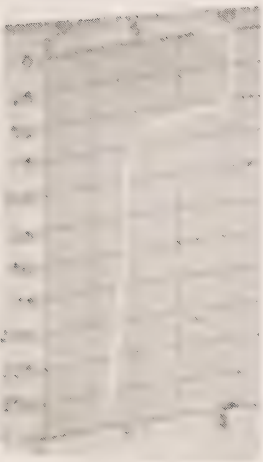
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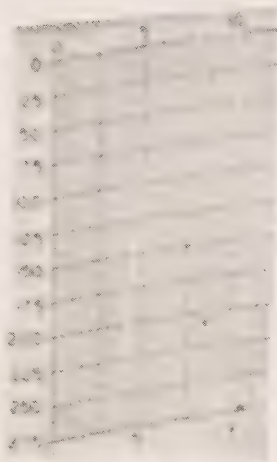
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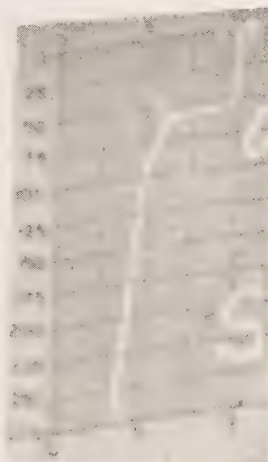
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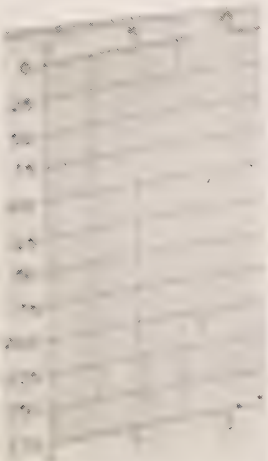
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127



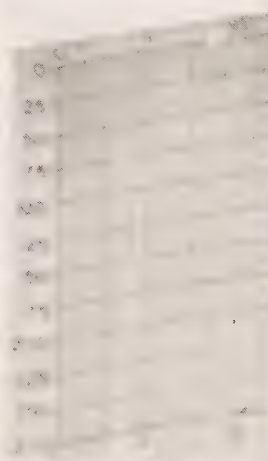
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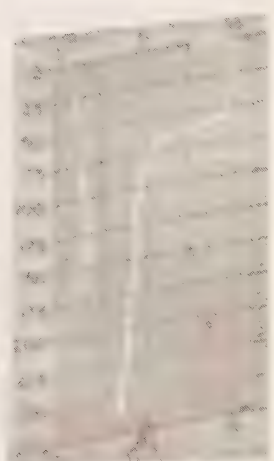
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130



131



132



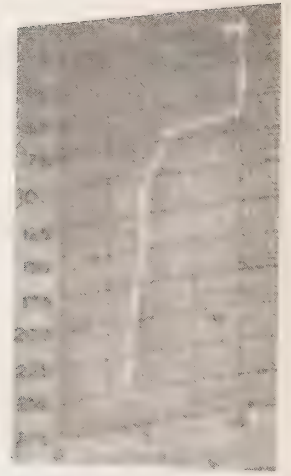
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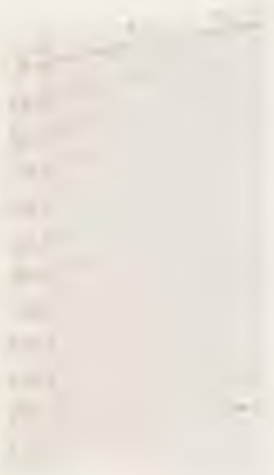
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135



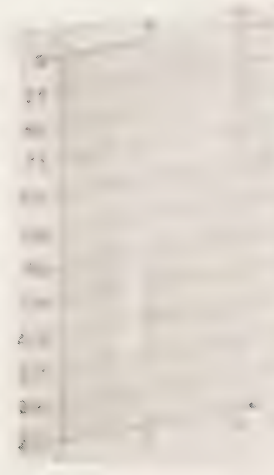
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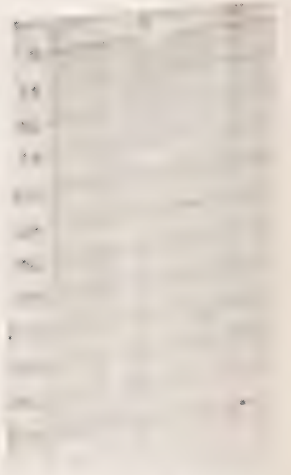
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138



139



140



141



142



143



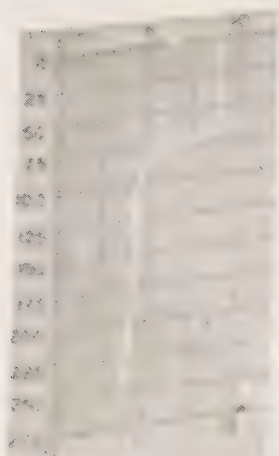
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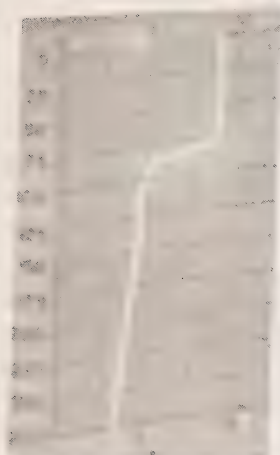
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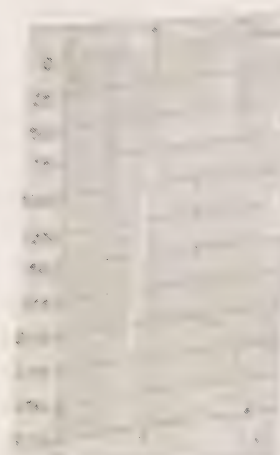
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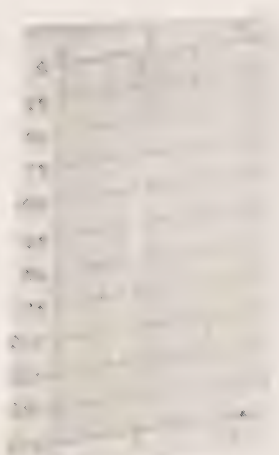
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149



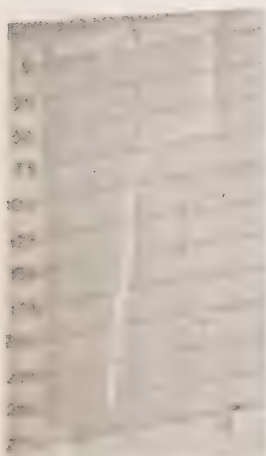
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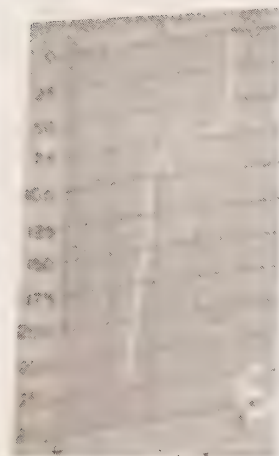
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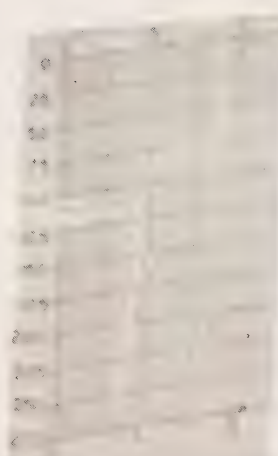
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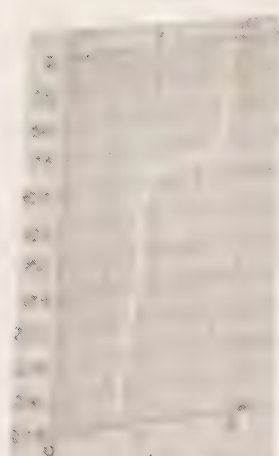
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154



155



156



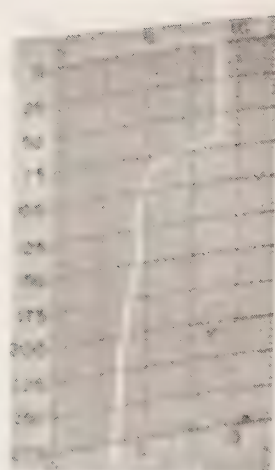
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158



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162



163



164



165



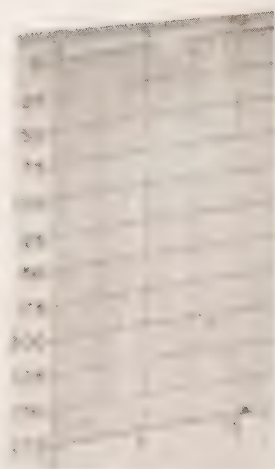
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167



168



169



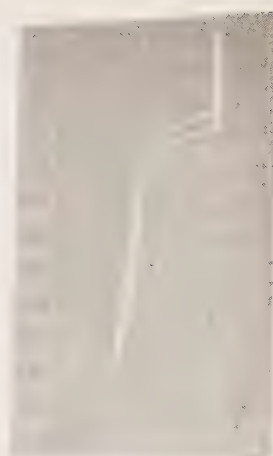
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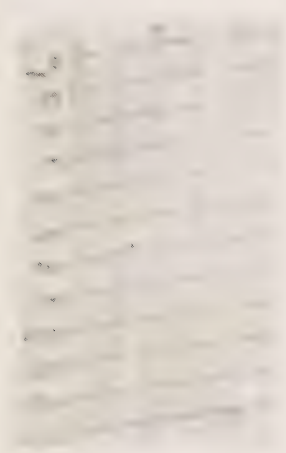
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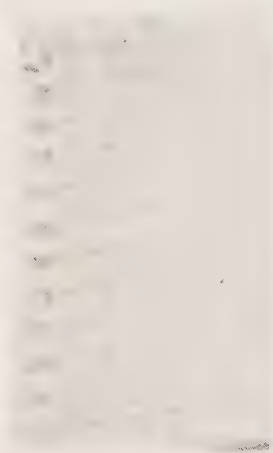
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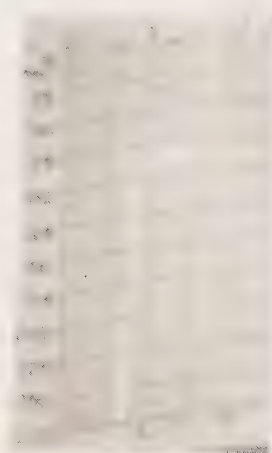
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174



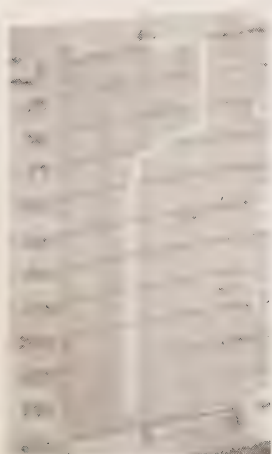
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176



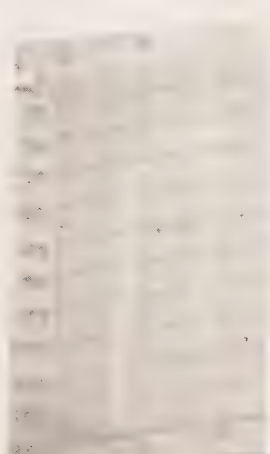
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178



179



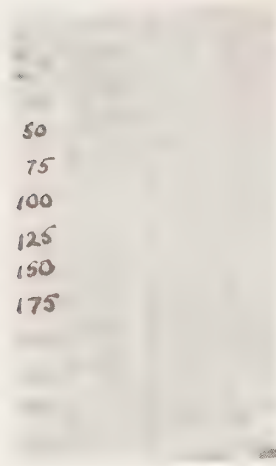
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181



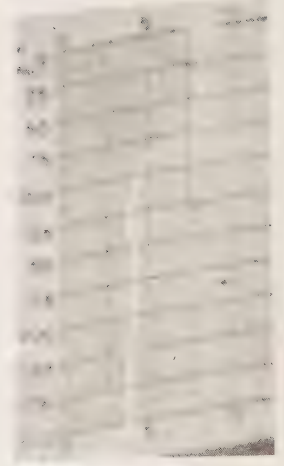
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183



184



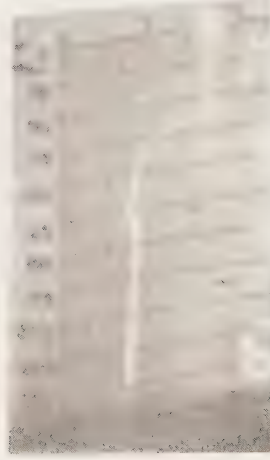
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186



187



188



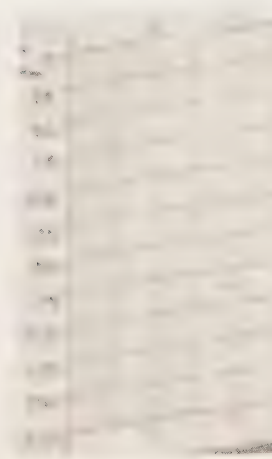
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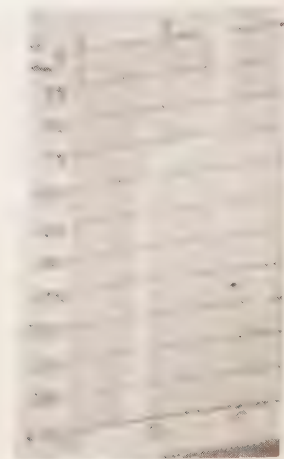
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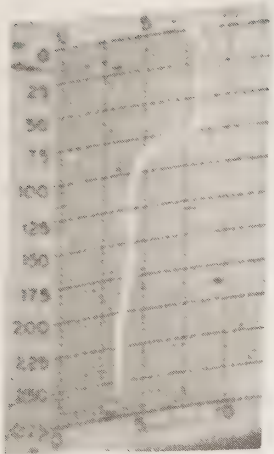
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SECTION V

Surface Salinity Data

Surface Salinity Observations

Date-Time G.M.T.	Position Latitude Longitude		Salinity ‰
CCGS "St. Catharines", Survey P-66-3 CODC Ref. No. 02-66-007			
66-08-06-16.5	48°55' n	129°40' w	32.365
07-00.5	49°04'	131°40'	32.488
07-07.2	49°13'	133°40'	32.086
07-14.7	49°22'	135°40'	32.483
07-23.5	49°31'	137°40'	32.454
08-12.0	49°41'	140°40'	32.545
08-16.4	49°45'	141°40'	32.525
08-20.6	49°49'	142°40'	32.606
09-02.5	49°54'	143°40'	32.624
10-00.0	49°50'	145°20'	32.597
11-00.0	49°57'	144°52'	32.569
12-00.0	50°01'	144°51'	32.538
13-00.0	50°02'	144°51'	32.521
14-00.0	49°53'	145°26'	32.563
15-00.0	49°56'	145°38'	32.590
16-00.0	49°57'	144°53'	32.572
17-00.0	49°58'	144°53'	32.562
18-00.0	49°58'	144°53'	32.671
19-00.0	50°05'	144°58'	32.557
20-00.0	49°58'	144°52'	32.580
21-00.0	49°53'	144°52'	32.567
22-00.0	50°07'	144°47'	32.557
23-00.0	50°04'	144°51'	32.559
25-00.0	49°56'	144°59'	32.585
26-00.0	49°57'	145°05'	32.538
27-00.0	49°51'	144°56'	32.568
28-00.0	49°54'	144°52'	32.554
29-00.0	49°58'	144°43'	32.592
30-00.0	49°59'	144°42'	32.586
31-00.0	50°00'	144°56'	32.638
66-09-01-00.0	49°59'	144°51'	32.561
02-00.0	50°02'	144°48'	32.581
03-00.0	50°05'	145°08'	32.599
04-00.0	49°57'	144°49'	32.629
05-00.0	50°03'	145°05'	32.599
06-00.0	49°54'	144°54'	32.604
07-00.0	49°56'	144°53'	32.744
08-00.0	49°56'	144°51'	32.579
09-00.0	50°02'	145°12'	32.682
10-00.0	50°03'	144°57'	32.618
11-00.0	49°54'	144°53'	32.740

Surface Salinity Observations

Date-Time G.M.T.	Position		Salinity ‰
	Latitude	Longitude	
66-09-12-00.0	50°06'	144°51'	32.571
13-00.0	50°06'	144°56'	32.555
14-00.0	49°57'	145°08'	32.630
15-00.0	50°04'	145°07'	32.533
16-00.0	49°50'	145°22'	32.549
19-00.0	49°58'	145°03'	32.534
19-13.2	49°48'	143°40'	32.530
19-17.0	49°57'	142°40'	32.549
19-22.0	49°49'	141°40'	32.482
20-01.2	49°41'	140°40'	32.469
20-04.2	49°39'	139°40'	32.449
20-07.5	49°34'	138°40'	32.444
20-10.5	49°29'	137°40'	32.468
20-13.2	49°27'	136°40'	32.526
20-16.2	49°22'	135°40'	32.402
20-19.2	49°17'	134°40'	32.488
20-22.0	49°13'	133°40'	32.494
21-01.0	49°08'	132°40'	32.504
21-04.2	49°00'	131°40'	32.423
21-07.2	49°02'	130°40'	32.302
21-10.5	48°55'	129°40'	32.401
21-13.6	48°51'	128°40'	32.721
21-16.8	48°46'	127°40'	32.118
21-20.2	48°42'	126°40'	32.105
21-22.0	48°38'	126°00'	32.166
21-23.5	48°33'	125°33'	32.035

CCGS "Stonetown", Patrol No. 71

CODC Ref. No. 02-66-008

66-09-21-00.0	49°43' n	145°10' w	32.562
22-00.0	50°03'	144°57'	32.530
23-00.0	49°58'	145°02'	32.189
24-00.0	50°02'	144°59'	32.498
25-00.0	50°00'	145°04'	32.389
26-00.0	50°05'	145°04'	32.403
27-00.0	49°07'	145°08'	32.468
28-00.0	49°55'	145°00'	32.362
29-00.0	49°59'	145°06'	32.362
30-00.0	49°47'	145°20'	32.518
66-10-01-00.0	50°13'	144°47'	32.369
02-00.0	49°57'	144°56'	32.315
03-00.0	49°57'	145°06'	32.347
04-00.0	49°58'	145°00'	32.413

Surface Salinity Observations

Date-Time G.M.T.	Position		Salinity ‰
	Latitude	Longitude	
66-10-05-00.0	50°01'	144°58'	32.474
06-00.0	50°02'	144°52'	32.568
07-00.0	50°00'	144°53'	32.480
08-00.0	49°43'	145°02'	32.749
09-00.0	49°57'	145°05'	32.481
10-00.0	49°59'	144°48'	32.510
11-00.0	50°02'	144°55'	32.512
12-00.0	49°59'	144°49'	32.493
13-00.0	50°12'	144°53'	32.373
14-00.0	50°01'	144°33'	32.520
15-00.0	50°04'	145°01'	32.534
16-00.0	49°50'	144°50'	32.708
17-00.0	49°49'	144°51'	32.562
18-00.0	49°52'	145°03'	32.440
19-00.0	49°40'	145°22'	32.603
20-00.0	49°53'	145°37'	32.605
21-00.0	49°52'	145°05'	32.554
22-00.0	49°59'	145°01'	32.406
23-00.0	49°50'	145°03'	32.498
24-00.0	49°56'	145°01'	32.424
25-00.0	49°58'	145°06'	32.544
26-00.0	49°49'	144°52'	32.474
27-00.0	50°08'	145°08'	32.473
28-00.0	50°03'	145°00'	32.535
29-00.0	50°05'	145°08'	32.406
30-00.0	50°03'	144°57'	32.434
31-00.0	50°04'	145°01'	32.285

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September 15 to October 25, 1963

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DEPARTMENT OF ENERGY, MINES AND RESOURCES
and
DALHOUSIE UNIVERSITY

BAFFIN BAY - 1963

Ship:	CCGS "Labrador"
Local cruise designation:	LAB 12-63
Cruise period:	September 15 - October 25, 1963
Observers:	See Introduction Part 1

INSTITUTE OF OCEANOGRAPHY, Dalhousie University, Halifax, N.S.

BEDFORD INSTITUTE OF OCEANOGRAPHY, Dartmouth, N.S.

SECTION I

Description of data collection procedures



Fig. 1

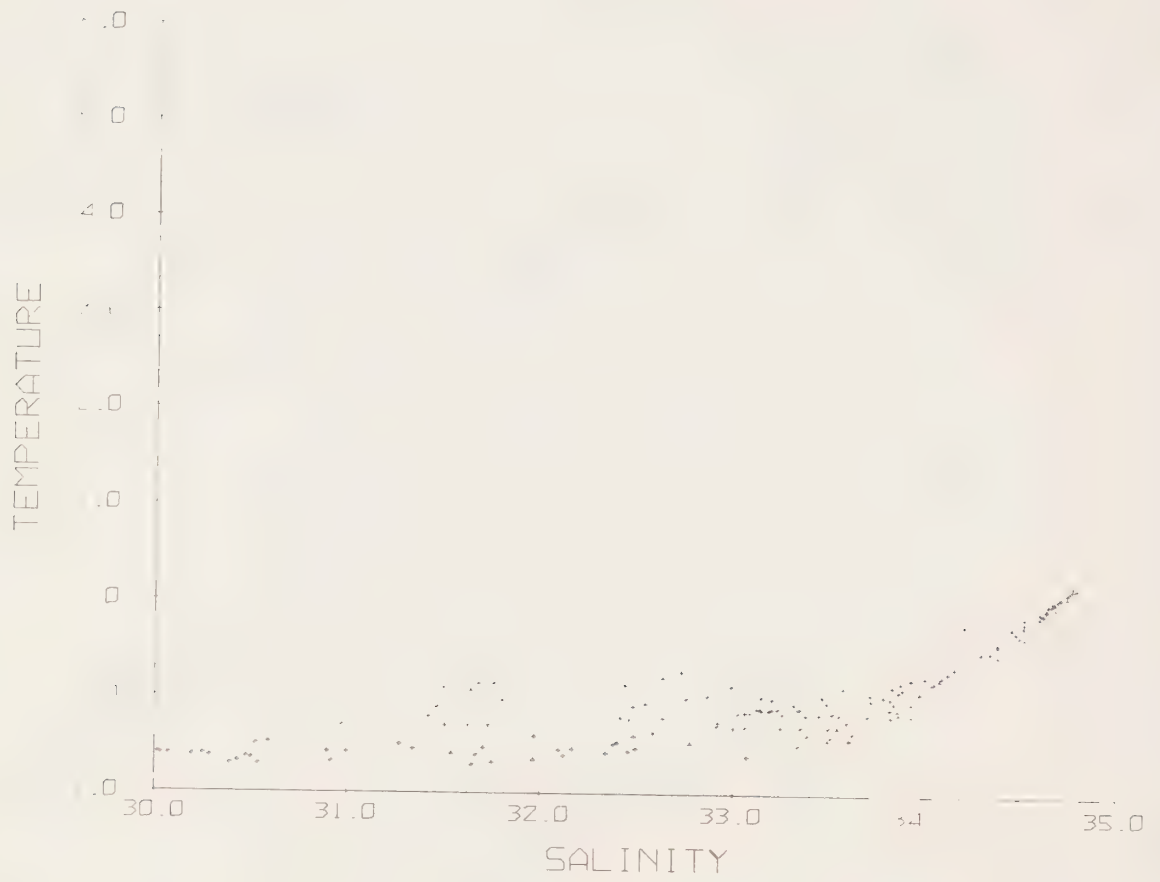


Fig. 2(a)

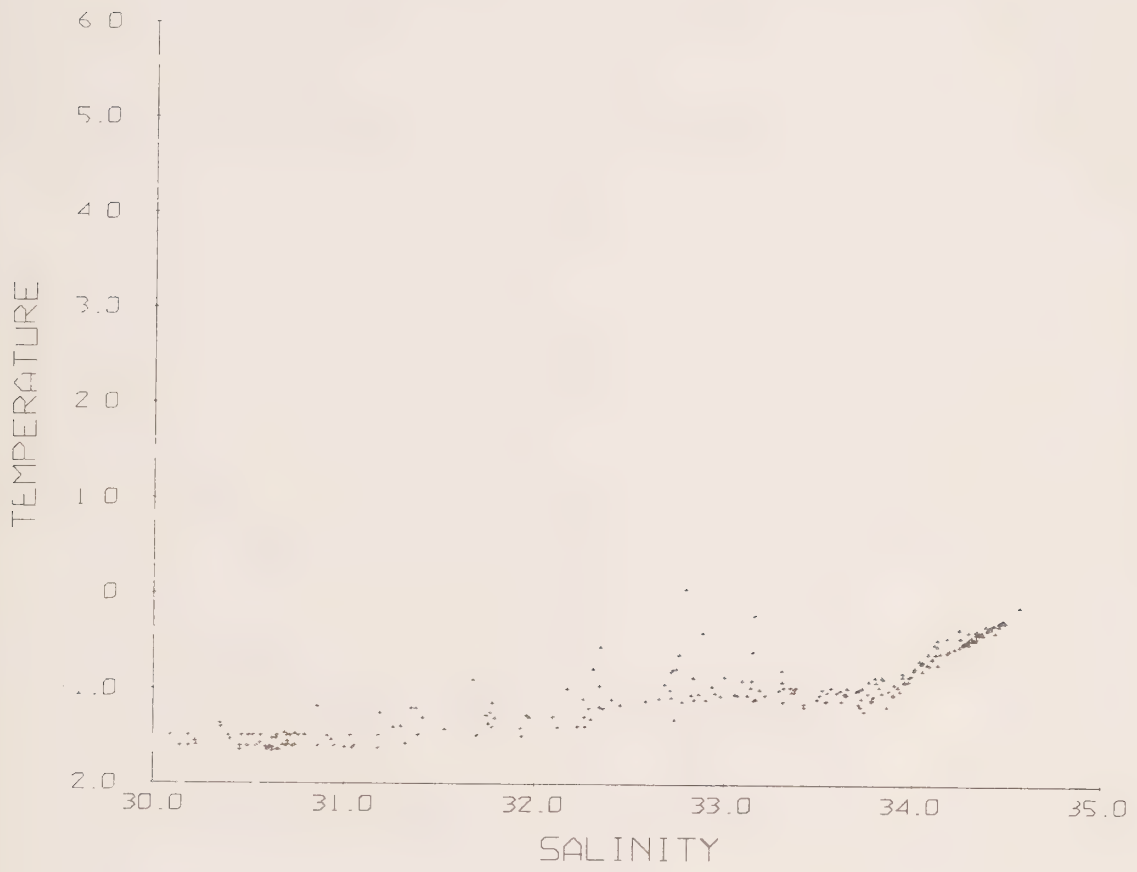


Fig. 2(b)

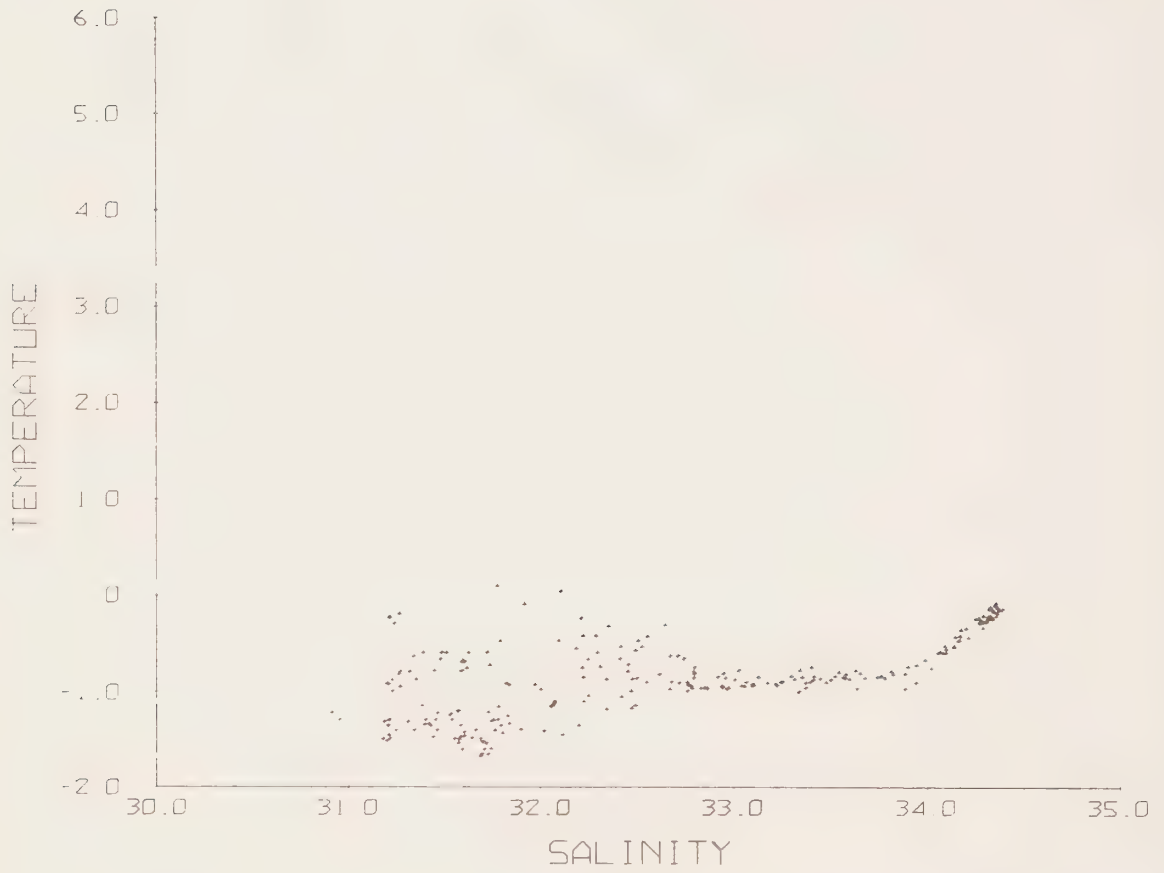


Fig. 2(c)

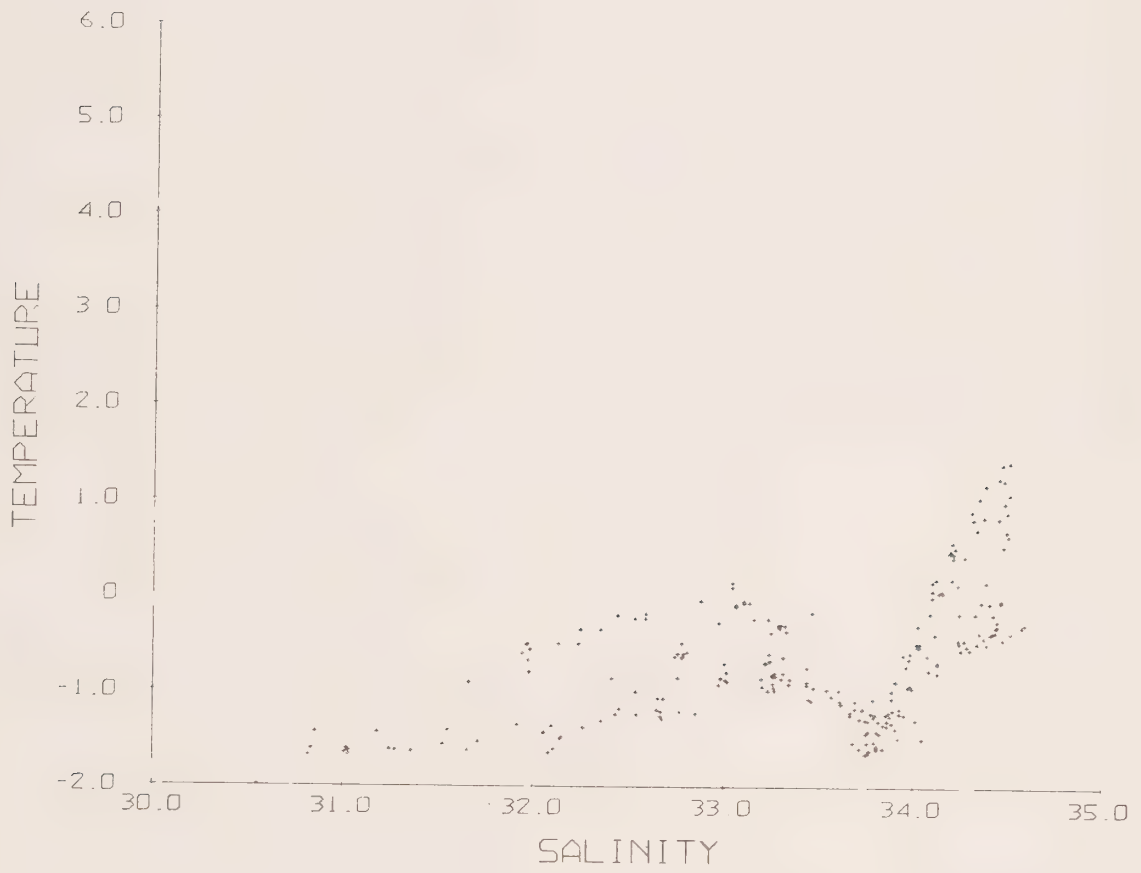


Fig. 2(d)

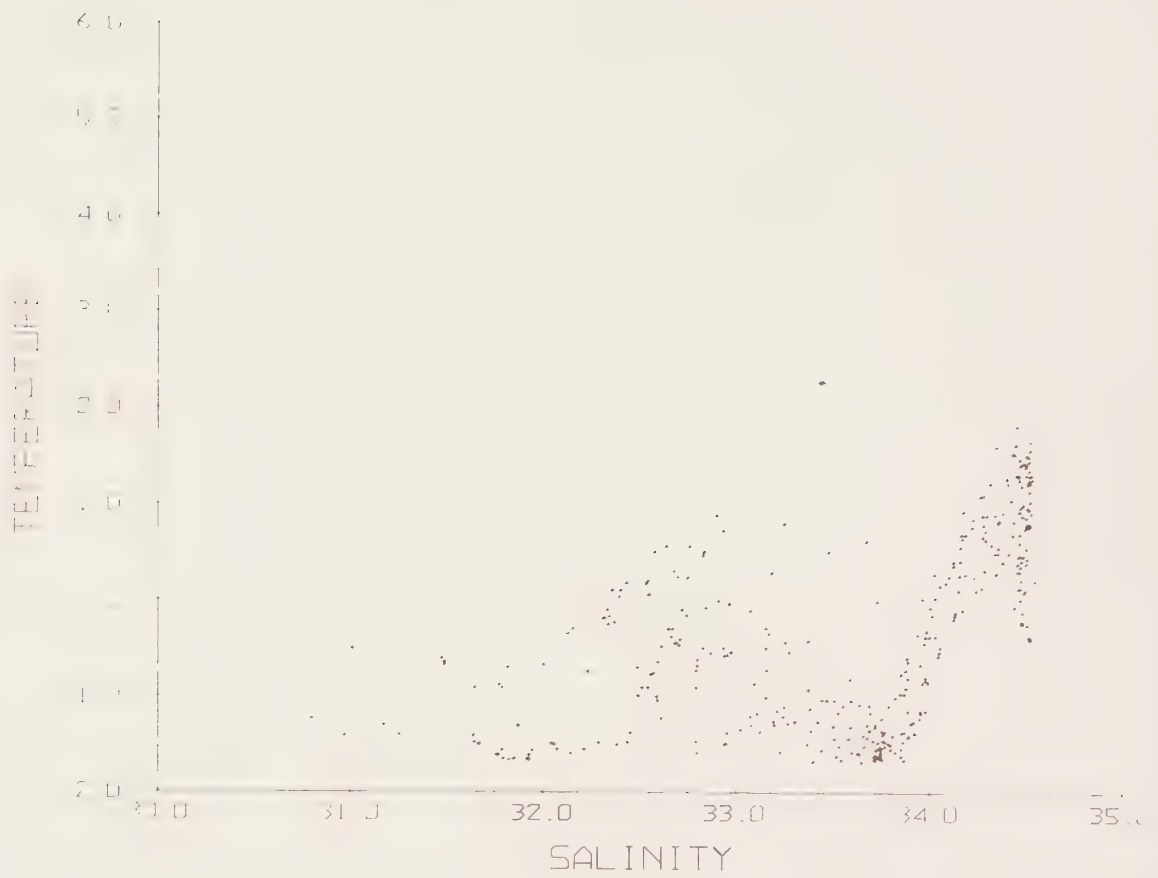


Fig. 2(e)

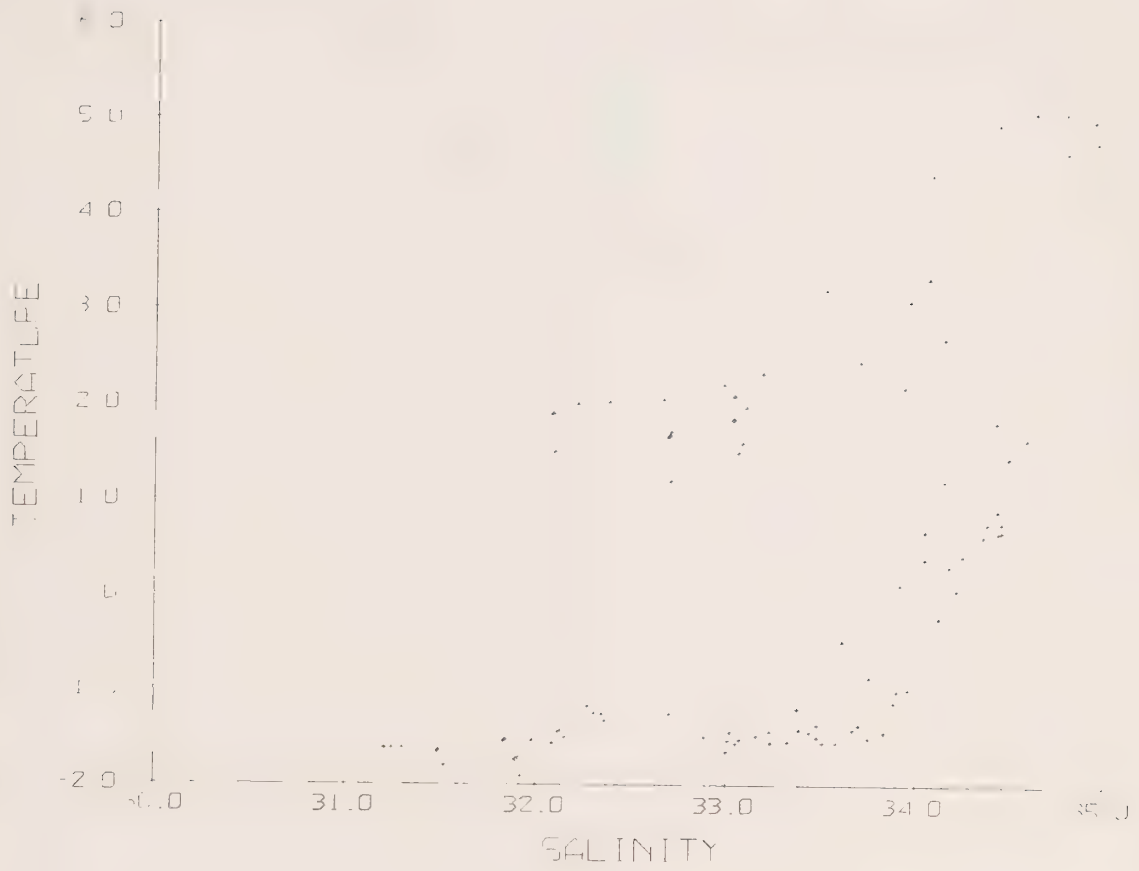


Fig. 2(f)

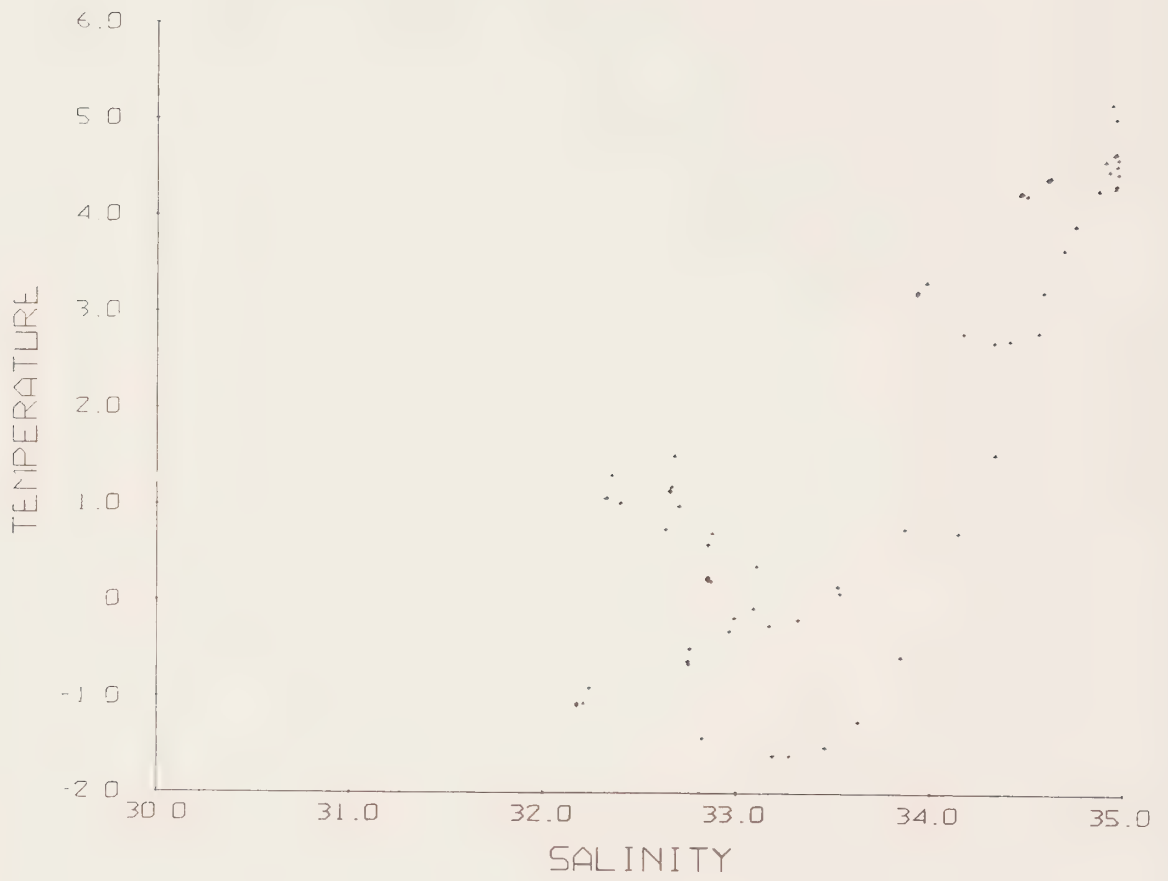
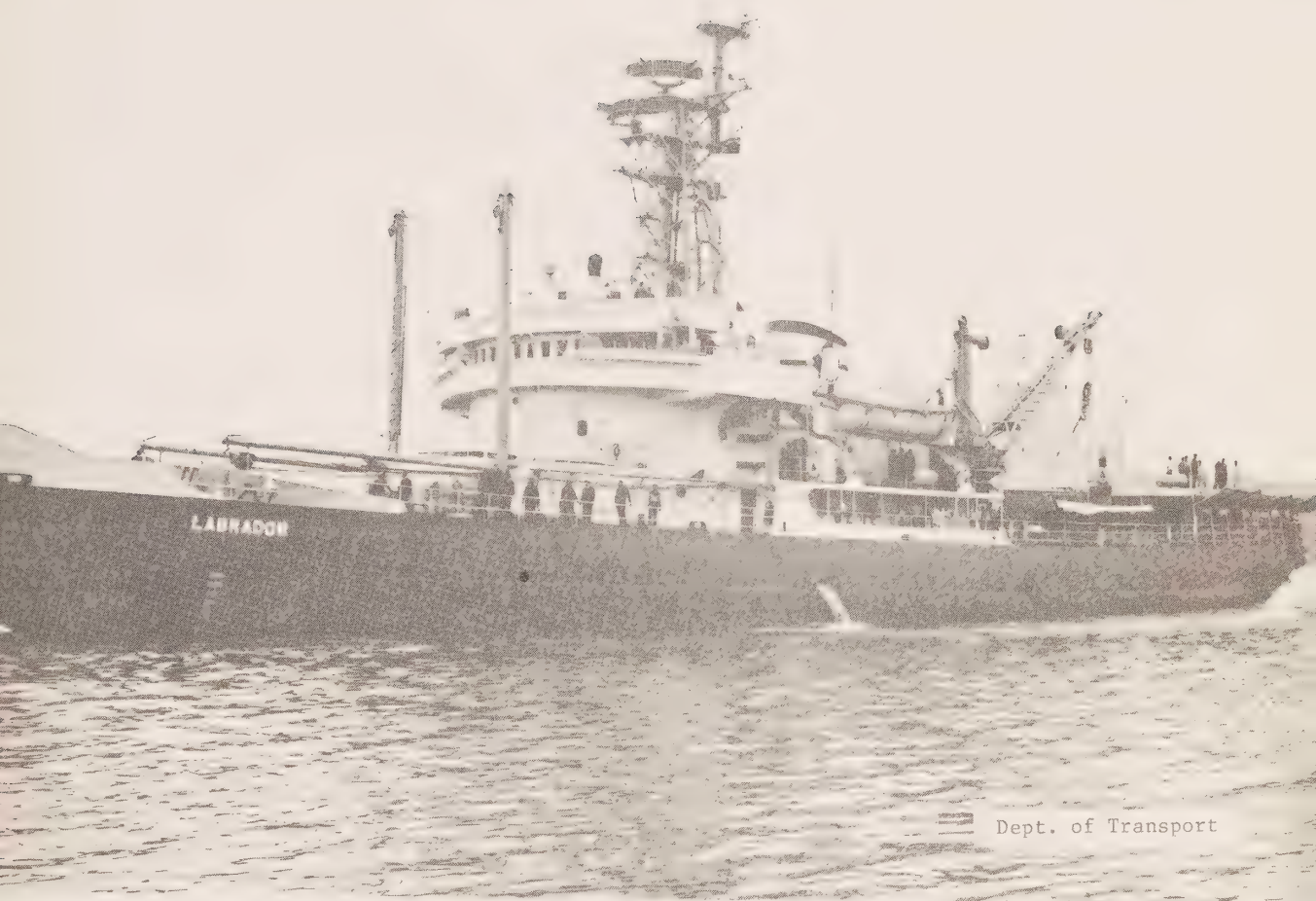


Fig. 2(g)

LIST OF FIGURES

- Figure 1. The approximate positions of the stations occupied by CCGS "Labrador" during the navigation season of 1963.
- Figure 2. A computer generated temperature-salinity relation (Wilson, 1967) of the serial data in the range 30 to 35‰ observed by CCGS "Labrador" in 1963.
- (a) Stations 1-17
 - (b) Stations 18-40
 - (c) Stations 41-65
 - (d) Stations 66-86
 - (e) Stations 87-113
 - (f) Stations 114-123
 - (g) Stations 124-131

CCGS LABRADOR



Dept. of Transport

INTRODUCTION

During the navigation season of 1963 the icebreaker CCGS "Labrador" was again made available for oceanographic survey in Arctic waters (Fig. 1). The programme included geophysical and geological observations as well as the usual physical oceanographic observations reported in this data record; the geophysical work has been described (Manchester et al., 1964) and Collin (1965) described a portion of the serial data. During the period May 21 to June 16, 1963 data were obtained by CSS "Baffin" in the Labrador Sea and Davis Strait to about latitude 68° North (Anon., 1964a; Campbell et al., 1964).

It was known that the surface ice condition through Nares Strait would be anomalous (Nutt et al., 1963;) and it was anticipated that observations in that area might have been possible in "Labrador" earlier in the season; extensive data were observed there in the CGC "Evergreen" as early as July (Franceschetti et al., 1964). Further south in Lancaster Sound and to the southeast of Baffin Island ice conditions were unusually severe (Markham, 1963; Dunbar, 1964; Hill et al., 1965. A graphical summary of observed ice conditions is available (Anon., 1964b) and Nutt (1966) provided a detailed assessment of the movement of an ice island (WH-5) from the Arctic Ocean during the period 1962 to 1964.

The presentation of data in this report is subject to modification and possible correction at a later date. A few observations were obviously wrong and were deleted, otherwise no attempt has been made to interpret or adjust values. A portion of the dissolved oxygen data observed early on the survey appear to be the result of blunders attributable to a lack of experience in sampling techniques.

EXTRACT OF CRUISE LOG

July 17	Leave Halifax.
August 10	Complete escort and re-supply duties in Hudson Bay and Strait.
August 29	Complete escort duty on east coast of Baffin Island.
September 6	Complete the removal and re-location of the RCMP Alexandra Fiord detachment.
September 7-10	Magnetometer survey.
September 10-14	Thule.
September 15-30	Occupied stations 1 to 71.
September 30-October 2	Thule
October 2-25	Occupied stations 72 to 131.
October 27	Arrive Halifax.

OBSERVATIONAL AND LABORATORY PROCEDURES

The observations at each station (Table 1) included a bathythermograph lowering usually made first, and one or two casts for serial data. Each reversing bottle (Nansen type) was fitted with two protected thermometers (Richter and Wiese) and an unprotected thermometer at nominal depths greater than 250m. Surface temperatures were obtained using a specially constructed bucket fitted with a separate thermometer; surface water samples were obtained with a plastic bucket. Samples for dissolved oxygen determinations were drawn at most stations and were titrated immediately. Salinity samples were drawn into 8 oz. glass medicine bottles with hard plastic caps fitted with polyethelene inserts; the determinations were carried out on board during the last two weeks of the cruise.

At selected stations sediment samples were obtained using a grab sampler and a light weight gravity corer. Vertical net tows for plankton were made using a net one foot in diameter and microplankton samples were taken from the reversing bottles at some stations. The plankton samples were forwarded to the Arctic Unit of the Fisheries Research Board of Canada.

The tabulated depth of observation to 250m nominal depth was determined from a reading of a meter wheel and wire angle measurement. A deeper depth the difference method utilizing the surface wire angle, amount of wire payed out and thermometric depth was used.

The tabulated temperatures at stations to 128 are the result of two readings of the two reversing thermometers on each bottle; at station 129 to 131 the values are the result of two readings of one thermometer.

The salinity determinations were carried out on an inductive type salinometer (Brown et al., 1960). The dissolved oxygen determinations were carried out using the modified Winkler procedure described by Strickland et al., (1960).

The temperature salinity relationship of the serial data in the range 30 to 35‰ is shown in Figure 2. This is the direct reproduction of the output of a machine plotter (Wilson, 1967).

BATHYTHERMOGRAPH DATA

The bathythermograph data presented here in Section IV were reproduced from aperture cards (Sauer, 1964) in a reader printer unit of the Canadian Oceanographic Data Centre. The output from this unit was then cropped and affixed to photo-copy masters after the serial temperatures and trace were inked in. The consecutive slide number has been indicated in each and relates each to the appropriate consecutive station number of Table 1 and to the detailed information concerning the BT data of Table 2.

PERSONNEL

July 17-September 10	R. Bailey, R. Cooper, A. Holler (to Aug. 15), K. Manchester, J. Murray, C. Ross, I. Saunders.
September 14-30	R. Cooper, J. Dugas, T. Lee, P. McGrath, B. Pelletier, D. Snodgrass.
October 2-27	R. Cooper, J. Dugas, A. Holler, T. Lee, P. McGrath, D. Snodgrass.

Table 1 A tabulation, by consecutive number, of the extent of the on-station data observed in CCGS "Labrador" in 1963; the slide number is the same as that in Table 2.

Consec Station No	Position		Consec Slide No	Temp & Sal	O ₂	Vert Plankton Hauls	Bottom Grab	Core
1	N 81°21' - W 63°40'		1	v	v		v	
2	81 10	64 50	2	v	v		v	
3	80 59	65 58	3	v	v			
4	80 50	67 10	4	v	v		v	
5	80 37	67 50	5	v	v	v		
6	80 12	67 49	6	v	v	v	v	
7	80 11.5	68 20	7	v	v	v		
8	80 05.5	69 14	8	v	v	v		
9	79 50	65 50	9	v	v	v	v	v
10	79 51	66 46	10	v	v	v		v
11	79 51.5	68 14	11	v	v	v	v	
12	79 49	69 48	12	v	v	v		v
13	79 45	70 33	13	v	v	v		v
14	79 27	70 52	14	v	v	v	v	v
15	79 33	69 06	15	v	v	v		v
16	79 32	66 50	16	v	v	v	v	v
17	79 32	65 46	17	v	v	v		v
18	79 03	70 11	18	v	v	v	v	v
19	79 03	71 16	19	v	v	v	v	v
20	79 02	73 02	20	v	v	v	v	
21	79 01	73 48	21	v	v	v		
22	78 40	73 38	22	v	v	v		
23	78 38	73 12	23	v	v	v	v	
24	78 36	72 35	24	v	v	v		
25	78 27.5	72 58	25	v	v	v		
26	78 29	73 30	26	v	v	v	v	v
27	78 31	73 58	27	v	v	v		v
28	78 33	74 34	28	v	v	v	v	v
29	78 19	74 50	29	v	v			v
30	78 20.5	74 18	30	v	v			v
31	78 21.5	73 43	31	v	v	v	v	v
32	78 23	72 54	32	v	v			
33	78 10	73 20	33	v	v			

Consec Station No	Position		Consec Slide No	Temp & Sal	O ₂	Vert Plankton Hauls	Bottom Grab	Core
34	78 11	73 46	34	v	v		v	v
35	78 11	74 15	35	v	v			v
36	78 11	74 50	36	v	v			v
37	78 11	75 20	37	v	v			v
38	78 07	75 04	38	v	v			v
39	78 05	74 00	29	v	v		v	v
40	77 59	74 10	40	v	v	v	v	v
41	76 09	79 20	41	v	v			v
42	76 12	79 32	42	v	v	v		
43	76 15	79 46	43	v	v		v	
44	76 06	81 06	44	v	v			
45	76 01	81 10	45	v	v	v		v
46	75 56	81 12	46	v	v			v
47	75 53.5	81 10	47	v	v		v	v
48	76 02	82 32	48	v	v			v
49	76 15.5	84 02	49	v	v		v	v
50	76 09.5	84 21	50	v	v		v	v
51	76 05	84 12	51	v	v	v	v	v
52	75 58	84 04	52	v	v		v	v
53	75 52	84 00	53	v	v			v
54	75 45	87 30	54	v	v			v
55	75 49	87 23	55	v	v			v
56	76 00	87 15	56	v	v	v	v	v
57	76 10	87 08	57	v	v		v	v
58	76 18	87 12	58	v	v			
59	76 19	88 52	59	v	v	v	v	
60	76 23	88 40	60	v	v		v	
61	76 08.5	88 38	61	v	v			v
62	75 44.4	79 26	62	v	v		v	v
63	75 40.7	79 45	63	v	v	v	v	v
64	75 38	79 40	64	v	v			v
65	75 33.5	79 50	65	v		v	v	v
66	77 20	77 50	66	v	v	v	v	v
67	77 15	76 30	67	v	v		v	v

Consec Station No	Position		Consec Slide No	Temp & Sal	O ₂	Vert Plankton Hauls	Bottom Grab	Core
68	77 28	75 25	68	v	v	v		v
69	77 10	75 03	69	v	v	v	v	v
70	77 06	73 30	70	v	v		v	v
71	77 00	72 00	71	v	v	v		v
72	76 32	70 29	72	v				
73	76 32	71 00	73	v				
74	76 27	71 48	74	v				
75	74 30	75 00	75	v				
76	74 30	76 32	76	v				
77	74 30	77 30	77	v	v			
78	74 30	78 40	78	v				
79	74 30	79 19	79	v				
80	74 26	79 55	80	v				
81	75 48	77 37	81	v	v	v		
82	76 00	76 00	82	v	v			
83	76 27	71 43	83	v				
84	76 22	72 34	84	v				
85	76 12	74 09	85	v				
86	75 48.5	67 04	86	v				
87	75 47	67 36	87	v				
88	75 35	68 10	88	v	v			
89	75 28	68 44	89	v				
90	75 12	69 50	90	v				
91	74 50	71 20	91	v	v			
92	74 30	72 40	92	v				
93	74 10	74 00	93	v	v			
94	73 55	75 10	94	v				
95	73 46	75 45	95	v				
96	73 40	76 17	96	v				
97	73 34	76 42	97	v	v	v		
98	73 30	72 00	98	v				
99	74 30	70 00	99	v	v	v		
100	74 30	64 05	100	v				

Consec Station No	Position		Consec Slide No	Temp & Sal	O ₂	Vert Plankton Hauls	Bottom Grab	Core
101	74 30	59 30	101	v	v			
102	74 31	58 38	102	v				
103	74 25	59 12	103	v				
104	74 20	60 00	104	v				
105	74 07	61 35	105	v				
106	72 45	64 40	106	v	v			
107	72 20	65 25		v	v			
108	71 30	69 30	107	v	v			
109	71 30	65 00		v				
110	70 30	60 00	108	v	v			
111	70 00	56 00	109	v	v			
112	69 00	60 00	110	v	v			
113	68 45	65 00	111	v	v			
114	66 10	60 30	112	v	v			
115	66 30	60 58	113	v				
116	66 29	61 13						
117	66 37	59 57	114	v				v
118	66 30	59 00	115	v	v			
119	66 30	57 50	116	v				v
120	66 30	56 40	117	v	v			
121	66 30	55 28	118	v				v
122	66 30	54 28	119	v				
123	66 45	55 00	120	v	v			
124	64 30	57 00	121	v				
125	62 46	57 00		v				
126	62 00	64 00	122	v	v	v		v
127	60 30	63 00	123	v	v			
128	59 44	58 00	124	v	v			
129	58 00	60 00	125	v	v			
130	55 00	57 00	126	v	v			
131	53 00	55 00	127	v	v			

SECTION II

Description of the machine-generated data record

INTRODUCTION

This section applies to the machine processing phase of the data reduction and computation.

The oceanographic data previously recorded on CODC data summary forms, a sample of which is shown on the next page, are transferred to punch-cards for subsequent electronic data processing on an IBM 1620 computer, using CODC's OCEANS II program. In addition to computing routine derived quantities, the program carries out unit and format conversions, range checks, plausibility tests, internal editing, and if required, interpolation at standard oceanographic depths. When interpolations are carried out, additional derived values are computed.

After the data have been processed, the data record is prepared using an IBM 1401 computer configuration with the OCEAN REPORT III program, which provides for pre-edited high speed print-out on continuous direct-image masters. These masters subsequently yield the required volume of copies for distribution.

Provision has been made to enter an "estimate of precision" for each observed variable selected for interpolation at standard oceanographic depths. The precision depends on the instrument and/or technique used to determine the variable. A standard precision stated as a standard deviation (σ) can be determined for each instrument or technique under routine field conditions by making duplicate determinations of the variables for a homogeneous sample of sea water. These standard deviations are given for each cruise under "GENERAL INFORMATION" in section III of the data record.

The measurement error estimate of a specific observation in this data record, is stated as a multiple of the standard deviation derived as above, and entered in a column immediately to the right of the reported variable. In order to distinguish it from an additional decimal digit, the measurement error estimate is recorded alphabetically, (i.e., $1\sigma = A$, $2\sigma = B$, etc.; in this data record "A" is suppressed).

An option is provided with respect to the measurement of the salinity variable. If observed to three decimal digits, the last digit takes the place of the measurement error estimate.

In the past, a number of methods for both manual and machine interpolation have been developed. Studies and comparisons of the several methods have shown that no single method is universally acceptable. The manual methods are the most elaborate and flexible, but often require subjective decisions. In machine interpolation, all the present methods fail to yield acceptable results under some circumstances. Hence, it is considered necessary to qualify interpolated values by stating an "interpolation error estimate" derived from the particular interpolation formula used. There are two purposes in stating the error estimates; first, to give an indication of the quality of the interpolated data; second, to allow the oceanographer to redesign his observational procedures in order to reduce interpolation errors in future observations.

The interpolation scheme chosen for the OCEANS II program consists of a combination of two 3-point interpolations using the Lagrangian interpolation polynomial, as recommended by Rattray (1962). A parabola is fitted through three values of a given variable (T, S, O_2) considered as a function of depth. The two interpolation parabolas require a total of four points (observed depths). The middle points are common to both parabolas. The average of the two values obtained from the parabolas at standard depth is taken as the interpolated value, and a function of their difference as an estimate of the interpolation error.

This function combined with the "measurement error estimate" comprises the "combined measurement and interpolation error estimate". It is expressed as a multiple of the standard deviation of measurement (σ) under normal routine field conditions by:

CANADIAN OCEANOGRAPHIC DATA CENTRE

1 INST. CODE		2 LATITUDE (N=+)		3 LONGITUDE (W=+)		5 DATE		6 TIME		7 DEPTH		9 NO. DEPTHS OBS'D		VESSEL										
COUNTRY INST.		DEG. MIN.		DEG. MIN.		YEAR MONTH DAY		HOURS MIN. S.E.C.		TO BOTTOM				ENTERED BY CHECKED BY										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
10 WATER		11 WAVES I		12 WAVES II		13 WIND		14 BAROMETER		15 AIR TEMP.		16 WET BULB		17 W.W. CODE		18 TIDE		19 HOURS AFTER		20 CRUISE REFERENCE NUMBER		21 CONSEC. NUMBER		22
COLOUR TRANSP.		DW DP PW HW		DW DP HW		DIR. WIND																		
25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
6 TIME		7 DEPTH OF SAMPLE		8 TEMPERATURE		9 SALINITY		10 OXYGEN		11 PO ₂ - P		12 TOTAL - P		13 NO ₂ - N		14 NO ₃ - N		15 SIO ₂ - SI		16 P. PL.		17		18
HOURS MIN. S.E.C.																								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	2	3	4	5	6	7	8	9	10															

$$\frac{\sigma_i}{\sigma} = \left\{ \frac{(\Delta V_i)^2}{\sigma^2} + \sum_{n=j-2}^{j+1} (\gamma_n)^2 \left(\frac{\sigma}{\sigma_n} \right)^2 \right\}^{1/2}, \text{ where}$$

σ = Standard deviation of the combined error estimates at standard oceanographic depth,
 ΔV_i = the interpolation error estimate of variable "V" at standard oceanographic depth = $1/3 (\hat{V}_{i_1} - V_{i_2})$
 γ = Interpolation polynomial coefficient.

Z_j = Observed depth.

Z_i = Standard oceanographic depth, such that: $Z_{j-2} < Z_{j-1} < Z_i < Z_j < Z_{j+1}$

The integral part of the fraction $\frac{\sigma_i}{\sigma}$, if ≥ 2 , is reported in this Data Record following the interpolated variable. It represents the combined measurement and interpolation error estimate. In order to distinguish it from an additional decimal digit, it is recorded alphabetically (e.g.: 2 as "B", 3 as "C", etc.).

With respect to the interpolated value of the salinity variable if reported to three decimal digits, the interpolation error estimate is given only when $\frac{\sigma_i}{\sigma} \geq 2$ (the salinity is then recorded to two decimal places). If less than 2, the mean obtained from the two interpolation parabolas is reported to three decimal places.

EXPLANATION OF DATA RECORD HEADINGS

MASTER HEADINGS

(1) C-REF-NO	(6) YR	(11) DEPTH	(16) WAVES 1	(21) AIR T	(26) VIS
(2) CONS. NO	(7) MONTH	(12) MXSAMPD	(17) WAVES 2	(22) WET B	(27) STN
(3) LAT	(8) DAY	(13) NO. DPTH	(18) WND-DIR	(23) WW-CODE	
(4) LON	(9) HR	(14) W-COLOR	(19) WND-FCE	(24) CLD-TPE	
(5) MARSD SQ	(10) C/I	(15) W-TRNSP	(20) BARO	(25) CLD-AMT	(28) HW

- (1) CRUISE REFERENCE NUMBER: Assigned by the Institute. Commences with 001 at the beginning of each year (effective Jan. 1, 1963). Prior to that date the CRN was a number designated by CODC.
- (2) CONSECUTIVE NUMBER: Indicates the chronological order in which the stations were occupied.
- (3) LATITUDE: Indicate the position of the platform at the time of observation.
- (4) LONGITUDE:
- (5) MARSDEN SQUARE: Designates the geographic area code of the observation (see Marsden square chart).
- (6) YEAR:
- (7) MONTH:
- (8) DAY:
- (9) HOUR: The time (Greenwich Mean Time) at which the surface environmental data were recorded. It is reported to tenths of hours (Table 1).
If an "X" precedes the value for HOUR, (prior to Jan. 1, 1963) it indicates that the reported time is doubtful.
- (10) COUNTRY/
INSTITUTE: The International Geophysical Year (IGY) Country Code/Institute Code - see Table 11.
- (11) DEPTH: The sounding reported in metres. If corrected, this is stated in the "GENERAL INFORMATION" chapter of section III. Charted depths are preceded by the letter "C".
- (12) MAXIMUM
SAMPLING DEPTH: A code to indicate the deepest sampling depth (used for high speed sorting).
00 m - 50 m = 00
51 m - 150 m = 01
151 m - 250 m = 02
etc.

- (13) NUMBER OF DEPTHS: The number of levels observed (this is entered to initiate a computer safety check, guarding against the loss of punch-cards).
- (14) WATER COLOUR: A code based on the percentage of yellow (see table 2 and Note under FIELD "15" below).
- (15) WATER TRANSPARENCY: The depth in metres at which a Secchi disc (white disc, 30 cm. in diameter) just disappears from view, or the optical density expressed in percentage;
- NOTE: The "GENERAL INFORMATION" chapter in section III of the data record will state which method was used.
- (16) WAVES 1
($d_w d_w P_w H_w$ -code): The direction, period and height of the **wind-propagated** wave system. (See Tables 3, 4 and 5). Ref: World Meteorological Organization Codes 0885, 3155, 1555.
- (17) WAVES 2
($d_w d_w P_w H_w$ -code): The direction, period and height of the predominant **non-wind-propagated** wave system. (See Tables 3, 4 and 5). Ref: World Meteorological Organization Codes 0885, 3155, 1555.
- (18) WIND DIRECTION: The true direction to the nearest 10 degrees from which the wind is blowing (wind direction 990 means:—wind variable or direction unknown).
- (19) WIND FORCE
(WND-FCE): Beaufort notation (See Table 6).
- WIND SPEED
(WND-SPD): Anemometer reading reported in metres per second. Instrument height reported in "GENERAL INFORMATION" chapter of section III.
- (20) BAROMETER: The barometric pressure reported in millibars: the "GENERAL INFORMATION" chapter in Section III of the data record will state the type of instrument used.
- (21) AIR TEMPERATURE: In degrees Celsius.
- (22) WET BULB: In degrees Celsius.
- (23) ww CODE: Present Weather Code (See Table 7). Ref: WMO Code 4677
- (24) CLOUD TYPE: The type of predominating clouds (See Table 8). Ref: WMO Code 0500.
- (25) CLOUD AMOUNT: The sky coverage in eighths (See Table 9) Ref: WMO Code 2700
- (26) VISIBILITY: Visibility at the surface (See Table 10). Ref: WMO Code 4300.
- (27) STATION: A station reference number, assigned by the institute prior to, or during the survey.
- (28) HOURS AFTER HIGH WATER: Indicates the state of the tide for nearshore observations.

OBSERVED DATA HEADINGS

(1) GMT	(2) DEPTH	(3) TEMP	(4) SAL	(5) OXYGEN	(6) SGMT
(7) SOUND	(8) PO_4	(9) -P-	(10) NO_2	(11) NO_3	(12) SiO_2
				(12) SiO_2	(13) pH.

NOTE: Headings (1) to (7) will always be present. Headings (8) or (12) appear only when one or more additional chemical entries were made.

(1) G.M.T.: The Greenwich Mean Time of (in-situ) thermometer inversion and sea water sample collection.

When a multiple cast was initiated prior to and continued after midnight, the times indicated are uninterrupted by the change of day and appear beyond 24.0 hours. This will be accompanied by a statement: "MULTIPLE CAST CONTINUED NEXT DAY", which is printed following the last level of observed values.

(2) DEPTH: The depth in metres at the reversal time of deepest cast.

(3) TEMPERATURE: Temperatures from deepsea reversing thermometers, read to 0.01°C . Surface temperature measurement procedures are described in the chapter "OBSERVATION PROCEDURES" of section I, and/or the "GENERAL INFORMATION" chapter of section III. An alphabetical character following the temperature value represents the measurement error estimate referred to in the INTRODUCTION to this section.

(4) SALINITY: Salinity as defined by: $S = 0.03 + 1.805 \text{ Cl}\%$, reported in:
a. 1/100 parts per 1000, or
b. 1/1000 parts per 1000.

In case a: an alphabetical character following the value is the measurement error estimate as referred to under (3).

In case b: no error estimate indication is provided for, but an additional decimal digit takes its place.

(5) OXYGEN: The concentration of dissolved oxygen expressed in millilitres per litre to 2 decimal places. An alphabetical character following the value is the measurement error estimate as referred to under (3).

(6) SIGMA-T: The specific gravity anomaly as defined by: $(\text{Specific gravity} - 1) \times 10^3$ (e.g., σ_t reported as 2456, reads 24.56, and corresponds to a specific gravity of 1.02456).

(7) SOUND: The sound velocity is reported in m/sec. to 1 decimal place (e.g., 1437.9 m/sec.). The computation is carried out using Wilson's formula (1960), expressed in terms of temperature, salinity and total pressure.

- (8) PO_4 Phosphate-Phosphorus reported to hundredths of microgram-atoms per litre.
- (9) -P- Total Phosphorus reported to hundredths of microgram-atoms per litre.
- (10) NO_2 Nitrite-Nitrogen reported to hundredths of microgram-atoms per litre -- No dissolved nitrogen included --
- (11) NO_3 Nitrate-Nitrogen reported to tenths of microgram-atoms per litre.
- (12) SiO_2 Silicate-Silicon reported in whole microgram-atoms per litre.
- (13) pH The pH value.

NOTE: "TRC" (trace) is reported when a chemical entry has a value less than the standard deviation of measurement for that particular variable.

INTERPOLATED DATA HEADINGS

(1) DEPTH	(2) TEMP	(3) SAL	(4) OXYGEN	(5) SGMT	(6) SOUND
(7) DELTA-D	(8) POT-EN	(9) SVA.			

- (1) DEPTH: Standard Oceanographic Depth in whole metres, as well as additional depths: 125, 175, 225, 3500, 4500, 5500, 6500, 7500, 8500, 9500.
- (2) TEMPERATURE: Interpolated value at standard depth, followed by the combined measurement and interpolation error estimate (see "INTRODUCTION" to section II of the data record).
- (3) SALINITY:
- A. The reported salinity values are measured to three decimal places.
 - (i) the interpolation error estimate is less than twice the standard deviation of measurement
 - the interpolated value is reported to three decimal places (e.g., 30.139).
 - (ii) the interpolation error estimate is equal to or greater than twice the standard deviation of measurement.
 - the interpolated value is reported to two decimal places, and followed by the interpolation error estimate (e.g., 29.23 C).
 - B. The reported salinity values are measured to two decimal places and followed by the measurement error estimate.
 - the interpolated value is reported to two decimal places, and followed by the combined measurement and interpolation error estimate (e.g., 30.59 B).
- (4) OXYGEN: Interpolated value at standard depth, followed by the combined measurement and interpolation error estimate (see "Introduction" to section II of the data record).

- (5) SIGMA-T: Computed from temperature and salinity values at standard oceanographic depth.
- (6) SOUND VELOCITY: Computed from temperature, salinity and total pressure values at standard oceanographic depth, using Wilson's formula (1960).
- (7) DELTA-D: The geo-potential anomaly as defined by:
- $$\Delta D = \int_0^P \delta dp$$
- ΔD is expressed in dynamic metres (10^5 ergs/gram) and recorded to three decimal places (e.g., 2.345 dyn. metres).
- (8) POTENTIAL ENERGY ANOMALY: The Potential energy anomaly χ as defined by:
- $$\chi = 1/g \int_0^P p \delta dp = \int_0^Z \rho p \delta dz$$
- χ is expressed in units of 10^8 ergs/cm² and recorded to two decimal places (e.g., 116.44).
- (9) SPECIFIC VOLUME ANOMALY: The specific volume anomaly as defined by:
- $$\delta = \alpha - \alpha_{35.0.P}$$
- δ is expressed in ml/gr, and conventionally reported as $10^5 \delta$, to one decimal place (i.e., δ reported as 1234, reads 123.4, and corresponds to a specific volume anomaly of 0.001234 ml/gr.).

SPECIAL CHARACTERS

*(Asterisk): this character may occur in the interpolated portion of the data record. It is printed at the extreme left hand side of the page, when three or more standard depth levels fall within any one observed depth interval. The third, and all consequent levels are preceded by the asterisk to indicate that more than two machine interpolations were carried out, utilizing the same set of interpolation parabolas. The asterisk will also appear when the last standard depth is an extrapolation and there are at least two interpolations between the last two observed depths.

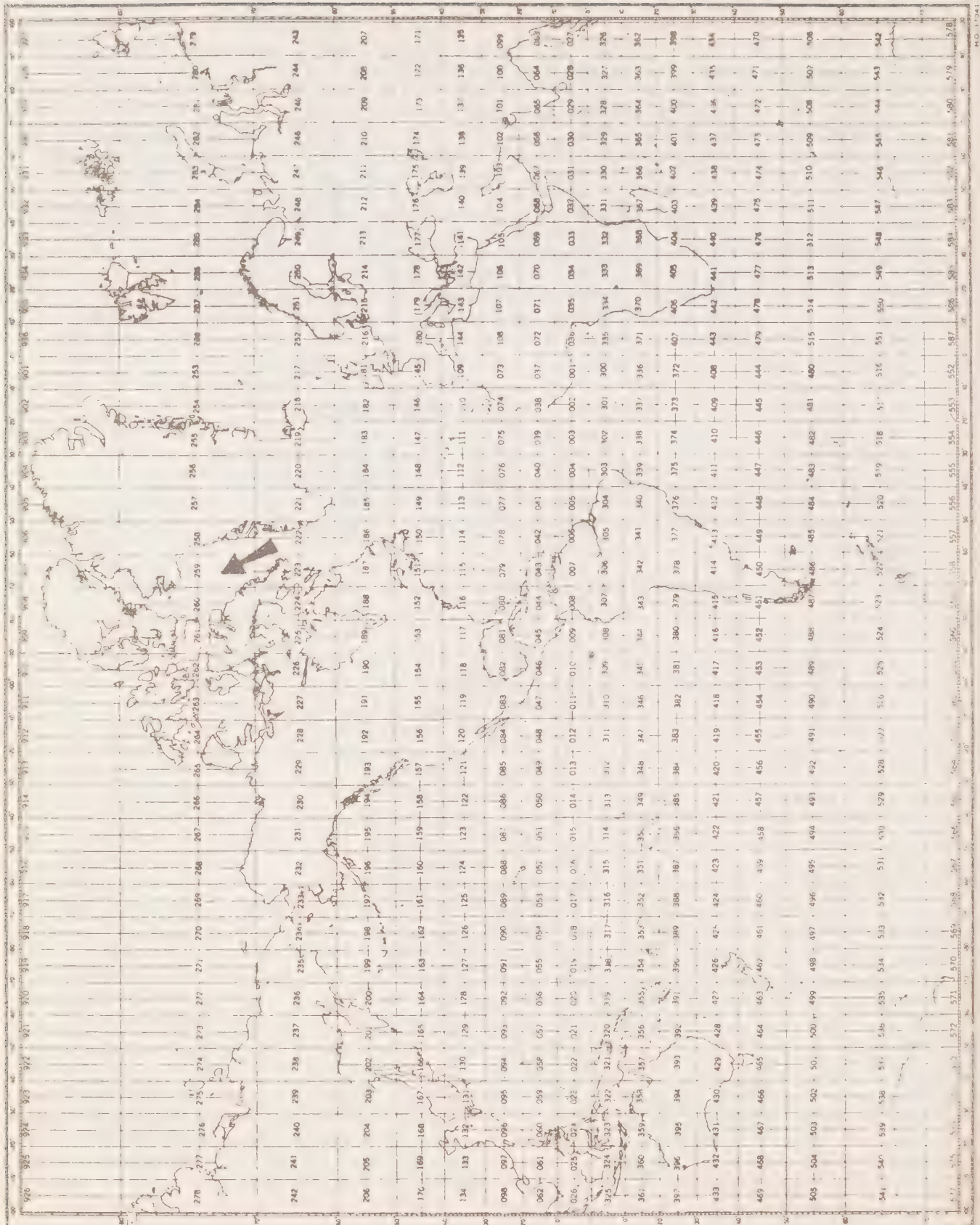
DOUBTFUL DATA

The doubtful data code formerly used in coding historical data and superseded by the measurement error estimate has been preserved. It appears in the "Observed Data" area, as a single digit to the left of GMT.

The doubtful data are reported according to the following code:

- 1 Depth
- 2 Temperature
- 3 Salinity
- 4 any combination of the above
- 5 Oxygen

Note: 1,2,3, and 4 take precedence over 5



MARSDEN SQUARE CHART

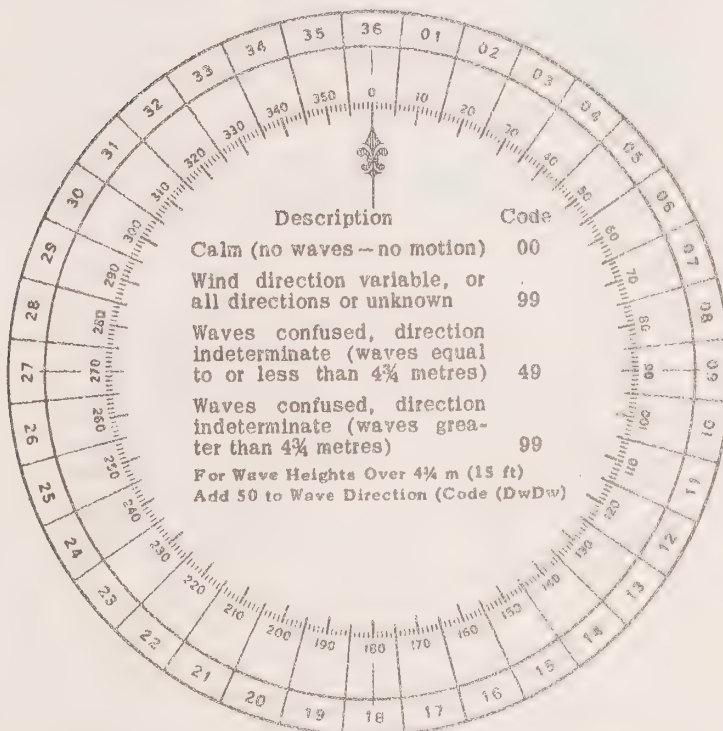
Table 1
CONVERSION
MINUTES TO $\frac{1}{10}$ HRS.

Minutes	Tenths Hrs.
00-03	0
04-08	1
09-15	2
16-20	3
21-27	4
28-32	5
33-39	6
40-44	7
45-51	8
52-56	9
57-59	0 (next HR.)

Table 2
WATER COLOR CODE
Based on Percentage Yellow

Code:	Description
00	Deep Blue
10	Blue
20	Greenish Blue
30	Bluish Green
40	Green
50	Light Green
60	Yellowish Green
70	Yellow Green
80	Green Yellow
90	Greenish Yellow
99	Yellow

Table 3. DIRECTION CODE (dd)



NOTE:

Always use the true direction from which the wind is blowing, or the direction from which Waves I (sea), or Waves II (swell) come.

Table 4. PERIOD OF THE WAVES (P_w)

(Measure to the Nearest Second)

Code:	Period in Seconds:	Code:	Period in Seconds:
2	5 sec. or less	8	16 or 17 sec.
3	6 or 7 sec.	9	18 or 19 sec.
4	8 or 9 sec.	0	20 or 21 sec.
5	10 or 11 sec.	1	Over 21 sec.
6	12 or 13 sec.	X	Calm, or period not determined
7	14 or 15 sec.		

Table 5. HEIGHT OF THE WAVES (H_w)

- The average value of the wave height (vertical distance between trough and crest) is reported, as obtained from the larger well formed waves of the wave system being observed.
- Each code figure provides for reporting a range of heights. For example: 1 = $\frac{1}{4}$ m (1 ft) to $\frac{3}{4}$ m ($2\frac{1}{2}$ ft); 5 = $2\frac{1}{4}$ m (7 ft) to $2\frac{3}{4}$ m (9 ft); 9 = $4\frac{1}{4}$ m ($13\frac{1}{2}$ ft) to $4\frac{3}{4}$ m (15 ft), etc.
- If a wave height comes exactly midway between the heights corresponding to two code figures, the lower code figure is reported; e.g. a height of $2\frac{3}{4}$ m is reported by code figure 5.

Code			Code
0	Less than ¼ m (1 ft)		0 5 m (16 ft)
1	½ m (1½ ft)		1 5½ m (17½ ft)
2	1 m (3 ft)		2 6 m (19 ft)
3	1½ m (5 ft)		3 6½ m (21 ft)
4	2 m (6½ ft)	Add	4 7 m (22½ ft)
5	2½ m (8 ft)	50	5 7½ m (24 ft)
6	3 m (9½ ft)	to	6 8 m (25½ ft)
7	3½ m (11 ft)	Dw Dw	7 8½ m (27 ft)
8	4 m (13 ft)		8 9 m (29 ft)
9	4½ m (14 ft)		9 9½ m (30½ ft) or more
x	Height not determined		

Add

50

to

Dw Dw

Table 6. WIND FORCE CODE

The Beaufort force of the wind is estimated from the appearance of the sea surface, according to the table below. This table is only intended as a guide to show roughly what may be expected on the open sea, remote from land. Factors which must be taken into account are the "lag" effect between the wind increasing and the sea getting up; and the influence of "fetch", depth, swell, heavy rain and tide effect on the appearance of the sea. Estimation of the wind force by this method becomes unreliable in shallow water or when close inshore, owing to the tidal effect and the shelter provided by the land.

Code	Appearance of sea if fetch and duration of the blow have been sufficient to develop the sea fully	Description
00	Sea like a mirror	Calm
01	Ripples with the appearance of scales are formed, but without foam crests.	Light Air
02	Small wavelets; crests have a glassy appearance and do not break.	Light Breeze
03	Large wavelets; crests begin to break; foam of glassy appearance; perhaps scattered white horses.	Gentle Breeze
04	Small waves, becoming longer; fairly frequent white horses.	Moderate breeze
05	Moderate waves; many white horses are formed (chance of some spray)	Fresh Breeze
06	Large waves; white foam crests everywhere (probably some spray)	Strong Breeze
07	Sea heaps up and white foam from breaking waves begins to be blown in streaks along the direction of the wind.	Near Gale
08	Moderately high waves; edges of crests begin to break into the spindrift; foam is blown in well-marked streaks along the direction of the wind.	Gale
09	High waves; dense streaks of foam along wind; crests begin to topple, tumble and roll over; spray may affect visibility.	Strong Gale
10	Very high waves with long overhanging crests; foam in great patches blown in dense white streaks along wind; sea surface takes a white appearance; tumbling becomes heavy and shock-like; visibility affected.	Storm
11	Exceptionally high waves (medium sized ships may be lost to view behind waves); sea covered with long white patches of foam lying along the wind; everywhere edges of crests are blown into froth; visibility affected.	Violent Storm
12	Air is filled with foam and spray; sea completely white with driving spray; visibility seriously affected.	Hurricane

Table 7. PRESENT WEATHER

W.W. CODE

NO PRECIPITATION ON STATION AT TIME OF OBSERVATION

Code figure		ww	
No meteors except photometers	00	Cloud development not observed or not observable	characteristic change of the state of sky during the past hour
	01	Clouds generally dissolving or becoming less developed	
	02	State of sky on the whole unchanged	
	03	Clouds generally forming or developing	
Haze, dust, sand or smoke	04	Visibility reduced by smoke, e.g. veldt or forest fires, industrial smoke or volcanic ashes	
	05	Haze	
	06	Widespread dust in suspension in the air, not raised by wind at or near the station at the time of observation	
	07	Dust or sand raised by wind at or near the station at the time of observation, but no well developed dust whirl(s) or sand whirl(s), and no duststorm or sandstorm seen	
	08	Well developed dust whirl(s) or sand whirl(s) seen at or near the station during the preceding hour or at the time of observation, but no dustorm or sandstorm	
	09	Duststorm or sandstorm within sight at the time of observation, or at the station during the preceding hour	
	10	Mist	
	11	Patches of	shallow fog or ice fog at the station, whether on land or sea, not deeper than about 2 metres on land or 10 metres at sea
	12	More of less continuous	
	13	Lightning visible, no thunder heard	
	14	Precipitation within sight, not reaching the ground or the surface of the sea	
	15	Precipitation within sight, reaching the ground or the surface of the sea, but distant (i.e. estimated to be more than 5 km) from the station	
	16	Precipitation within sight, reaching the ground or the surface of the sea, near to, but not at the station	
	17	Thunderstorm, but no precepitation at the time of observation	
	18	Squalls	at or within sight of the station during the preceding hour or at the time of observation
	19	Funnel clouds	
ww = 20 - 29			
	20	Precipitation, fog, ice fog or thunderstorm at the station during the preceding hour but not at the time of observation	not falling as shower(s)
	21	Drizzle (not freezing) or snow grains	
	22	Rain (not freezing)	
	23	Snow	
	24	Rain and snow or ice pellets, type (a)	
	25	Freezing drizzle or freezing rain	
	26	Shower(s) of rain	
	27	Shower(s) of snow, or of rain and snow	
	28	Shower(s) of hail, or of rain and hail	
	29	Fog or ice fog	
	29	Thunderstorm (with or without precipitation)	
ww = 30 - 39			
	30	Duststorm, sandstorm, drifting or blowing snow	- has decreased during the preceding hour
	31	Slight or moderate dust-storm or sand-storm	- no appreciable change during the preceding hour
	32	Storm	- has begun or has increased during the preceding hour
	33		- has decreased during the preceding hour
	34	Severe dust-storm or sand-storm	- no appreciable change during the preceding hour
	35		- has begun or has increased during the preceding hour
	36	Slight or moderate blowing snow	generally low (below eye level)
	37	Heavy drifting snow	
	38	Slight or moderate blowing snow	generally high (above eye level)
	39	Heavy blowing snow	
ww = 40 - 49			
	40	Fog or ice fog at the time of observation	
	41	Fog or ice fog at a distance at the time of observation, but not at the station during the preceding hour, the fog or ice fog extending to a level above that of the observer	
	42	Fog or ice fog in patches	
	43	Fog or ice fog, sky visible	has become thinner during the preceding hour
	44	Fog or ice fog, sky invisible	
	45	Fog or ice fog, sky visible	no appreciable change during the preceding hour
	46	Fog or ice fog, sky invisible	
	47	Fog or ice fog, sky visible	has begun or has become thicker during the preceding hour
	48	Fog or ice fog, sky invisible	
	49	Fog, depositing rime, sky visible	
	49	Fog, depositing rime, sky invisible	

NO PRECIPITATION ON STATION AT TIME OF OBSERVATION

PRECIPITATION ON STATION AT TIME OF OBSERVATION

ww = 50 - 59 Drizzle		ww = 80 - 99 Showery precipitation, or precipitation with current or recent thunderstorm	
50	Drizzle, not freezing, intermittent	80	Rain shower(s), slight
51	Drizzle, not freezing, continuous	81	Rain shower(s), moderate or heavy
52	Drizzle, not freezing, intermittent	82	Rain shower(s), violent
53	Drizzle, not freezing, continuous	83	Shower(s) of rain and snow mixed, slight
54	Drizzle, not freezing, intermittent	84	Shower(s) of rain and snow mixed, moderate or heavy
55	Drizzle, not freezing, continuous	85	Snow shower(s), slight
56	Drizzle, freezing, slight	86	Snow shower(s), moderate or heavy
57	Drizzle, freezing, moderate or heavy (dense)	87	Shower(s) of snow pellets or ice pellets, type (b), with or without rain
58	Drizzle and rain, slight	88	or rain and snow mixed
59	Drizzle and rain, moderate or heavy	89	Shower(s) of hail, with or without rain or rain and snow mixed, not associated with thunder
ww = 60 - 69 Rain		90	Slight rain at time of observation
60	Rain, not freezing, intermittent	91	Moderate or heavy rain at time of observation
61	Rain, not freezing, continuous	92	Slight snow, or rain and snow mixed or hail at time of observation
62	Rain, not freezing, intermittent	93	Moderate or heavy snow, or rain and snow mixed or hail at time of observation
63	Rain, not freezing, continuous	94	Thunderstorm, slight or moderate, without hail, but with rain and/or snow at time of observation
64	Rain, not freezing, intermittent	95	Thunderstorm, slight or moderate, with hail at time of observation
65	Rain, not freezing, continuous	96	Thunderstorm, heavy, without hail, but with rain and/or snow at time of observation
66	Rain, freezing, slight	97	Thunderstorm, combined with duststorm or sandstorm at time of observation
67	Rain, freezing, moderate or heavy	98	Thunderstorm, heavy, with hail at time of observation
68	Rain or drizzle and snow, slight	99	
69	Rain or drizzle and snow, moderate or heavy		
70 - 79 Solid precipitation not in showers			
ww			
70	Intermittent fall of snow flakes		
71	Continuous fall of snow flakes		
72	Intermittent fall of snow flakes		
73	Continuous fall of snow flakes		
74	Intermittent fall of snow flakes		
75	Continuous fall of snow flakes		
76	Ice prisms (with or without fog)		
77	Snow grains (with or without fog)		
78	Isolated starlike snow crystals (with or without fog)		
79	Ice pellets, type (a)		

PRECIPITATION ON STATION AT TIME OF OBSERVATION

Table 8. CLOUD TYPE CODE

Code	Cloud Type	Code	Cloud Type
0	Cirrus Ci	5	Nimbostratus Ns
1	Cirrocumulus Cc	6	Stratocumulus Sc
2	Cirrostratus Cs	7	Stratus St
3	Alto cumulus Ac	8	Cumulus Cu
4	Altostratus As	9	Cumulonimbus Cb
X	Cloud not visible owing to darkness, fog, dust storm, sandstorm, or other analogous phenomena		

Table 9. CLOUD AMOUNT CODE

Code	Cloud Cover	Code	Cloud Cover
0	0	6	6 oktas
1	1 okta or less, but not zero	7	7 oktas or more, but not 8 oktas
2	2 oktas	8	8 oktas
3	3 oktas	9	Sky obscured, or cloud amount cannot be estimated
4	4 oktas		
5	5 oktas		

Note: 1 okta = $\frac{1}{8}$ of the sky covered

Table 10. VISIBILITY

Code	Estimate of hor. Visibility
0	Less than 50 metres (less than 55 yards)
1	50-200 metres (approx. 55-220 yards)
2	200-500 metres (approx. 220-550 yards)
3	500-1,000 metres (approx. 550 yards- $\frac{1}{2}$ n.m.)
4	1-2 km (approx. $\frac{3}{4}$ -1 n.m.)
5	2-4 km (approx. 1-2 n.m.)
6	4-10 km (approx. 2-6 n.m.)
7	10-20 km (approx. 6-12 n.m.)
8	20-50 km (approx. 12-30 n.m.)
9	50 km or more (30 n.m. or more)

Note: n.m. = nautical mile

Table 11Institute Code

01. Atlantic Oceanographic Group.
02. Pacific Oceanographic Group.
03. Biological Station, St. Andrews, N.B.
04. Arctic Biological Station, St. Anne de Bellevue, P.Q.
05. Biological Station, St. John's, Nfld.
06. Station de Biologie Marine, Grande Riviere, P.Q.
07. Canadian Hydrographic Service.
08. Naval Research Establishment, Dartmouth, N.S.
09. Pacific Naval Laboratory, Esquimalt, B.C.
10. Bedford Institute of Oceanography.
11. Polar Continental Shelf Project.
12. Great Lakes Institute.
13. Inland Region, Oceanographic Research, Ottawa.
14. Institute of Oceanography, Dalhousie University.

SECTION III

Serial oceanographic data

GENERAL INFORMATION

<u>Institute:</u>	Bedford Institute of Oceanography
<u>Observation platform:</u>	CCGS "Labrador"
<u>Vessel's cruising speed:</u>	10 knots
<u>Total number of stations occupied:</u>	131
<u>Anemometer height above sea level:</u>	13 metres
<u>Barometer readings:</u>	Aneroid Barometer (corrected)
<u>Air temperature:</u>	Fixed Thermometer
<u>Surface sea water temperature:</u>	Bucket sample (deck thermometer)

The following Standard Deviations were used to express both measurement and interpolation error estimates:

Temperature	0.03
Salinity	0.003
Oxygen	0.05

C-REF-NO 005	YR 1963	DEPTH 524	WAVES 1 00X0	AIR T -06.8	VIS 8
CONS. NO 001	MONTH 9	MXSAMPD 05	WAVES 2 00X0	WET B -07.0	STN
LAT 81-210N	DAY 15	NO.DPTH 13	WND-DIR CALM	WW-CODE 71	
LON 63-400W	HR 22.8	W-COLOR	WND-SPD 00	CLD-TPE 7	
MARSD SQ 907	C/I 1810	W-TRNSP	BARO 1013.9	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
231	0000	-016 B	29821	945	2400	14346
231	0010	-0163	30480	965	2453	14355
231	0020	-0167	30917	931	2489	14361
231	0029	-0158	31545	841	2539	14376
231	0048	-0146	32779	687	2639	14402
231	0073	-0130	33544	770 B	2700	14424
231	0097	-0116	33928	686	2731	14440
231	0146	-0054	34379	686	2765	14484
228	0191	-0035	34518	686	2776	14502
228	0240	-0004	34680	686	2787	14526
228	0289	0008	34737	686	2791	14541
231	0392	0017	34767	686	2793	14562
231	0491	0020	34767	686	2793	14580

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0160 B	29821	945	2400	14346	0000	00000	3922
0010	-0163	30480	965	2453	14355	0037	00002	3412
0020	-0167	30917	931	2489	14361	0069	00007	3073
0030	-0157	3162 B	830	2545	14377	0098	00014	2533
0050	-0145	3287 C	691 B	2646	14404	0139	00030	1577
0075	-0129	33585	765 B	2704	14426	0172	00050	1027
0100	-0112	33967	683	2734	14443	0194	00069	0739
0125	-0081	3423 B	672 B	2754	14466	0210	00088	0547
0150	-0052	3440 B	686	2766	14486	0223	00105	0433
0175	-0040	3448 D	686	2773	14496	0233	00122	0372
0200	-0029	34551	686	2778	14506	0242	00139	0326
0225	-0013	3464 B	686	2784	14519	0249	00155	0270
0250	-0001	34697	686	2788	14530	0255	00170	0230
0300	0010	34744	686	2791	14543	0266	00201	0200
0400	0020	3478 C	686	2794	14565	0285	00269	0178
0500	0019	34763	686	2792	14581	0304	00356	0192

C-REF-NO 005	YR 1963	DEPTH 472	WAVES 1 00X0	AIR T -07.8	VIS 8
CONS. NO 002	MONTH 9	MXSAMPD 04	WAVES 2 00X0	WET B -08.1	STN
LAT 81-100N	DAY 16	NO.DPTH 13	WND-DIR 080	WW-CODE 71	
LON 64-500W	HR 11.2	W-COLOR	WND-SPD 05	CLD-TPE 7	
MARSD SQ 907	C/I 1810	W-TRNSP	BARO 1013.8	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
118	0000	-017 B	29788	955	2397	14341
118	0010	-0158	29788	957	2397	14348
118	0020	-0160	30033	935	2417	14352
118	0030	-0147	30595	910	2462	14368
118	0050	-0148	32385	722	2607	14396
112	0073	-0130	33248	676 B	2676	14420
112	0097	-0087	33828	701 B	2722	14452
112	0146	-0050	34337	715 B	2762	14485
112	0195	-0022	34554	687	2778	14509
112	0244	-0006	34634	665 B	2783	14525
112	0293	0008 B	34706	677	2789	14541
112	0391	0016	34769	676 B	2793	14562
112	0441	0017	34787	676 B	2795	14571

#WAVES NOT COMPATIBLE WITH WIND

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0170 B	29788	955	2397	14341	0000	00000	3946
0010	-0158	29788	957	2397	14348	0040	00002	3946
0020	-0160	30033	935	2417	14352	0078	00008	3756
0030	-0147	30595	910	2462	14368	0114	00017	3323
0050	-0148	32385	722	2607	14396	0167	00037	1944
0075	-0127	33307	677 B	2681	14423	0207	00062	1241
0100	-0084	3388 B	703 B	2726	14455	0233	00084	0819
0125	-0061	3419 H	715 B	2750	14474	0251	00104	0586
0150	-0047	34363	713 B	2764	14487	0264	00123	0461
0175	-0032	3449 B	701	2773	14500	0274	00140	0370
0200	-0020	34565	684	2779	14511	0283	00157	0319
0225	-0011	3461 B	671	2782	14520	0291	00174	0289
0250	-0004	34644	666 B	2784	14527	0298	00191	0268
0300	0009 B	34713	677	2789	14543	0310	00225	0223
0400	0018	3478 B	679	2794	14564	0330	00297	0178

C-REF-NO 005	YR 1963	DEPTH 463	WAVES 1 08X0	AIR T -06.8	VIS 8
CONS. NO 003	MONTH 9	MXSAMPD 04	WAVES 2 00X0	WET B -07.4	STN
LAT 80-590N	DAY 16	NO.DPTH 13	WND-DIR 080	WW-CODE 71	
LON 65-580W	HR 14.8	W-COLOR	WND-SPD 03	CLD-TPE 7	
MARSD SQ 907	C/I 1810	W-TRNSP	BARO 1011.8	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
148	0000	-015 B	29764	965	2395	14350
148	0010	-0160	29726	986	2392	14346
148	0020	-0162	29749	973	2394	14347
148	0029	-0159	30017	924	2416	14354
148	0048	-0140	31971	770	2573	14393
148	0072	-0117	33378	686 B	2687	14428
148	0096	-0099 B	33820	665 C	2722	14447
148	0144	-0067	34152	693 B	2747	14474
148	0192	-0033	34494	741 D	2773	14503
148	0240	-0009	34615		2782	14523
148	0289	0006	34692		2787	14539
148	0386	0012	34736		2791	14559
148	0435	0015	34756	682	2792	14568

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0150 B	29764	965	2395	14350	0000	00000	3967
0010	-0160	29726	986	2392	14346	0040	00002	3994
0020	-0162	29749	973	2394	14347	0080	00008	3974
0030	-0158	3011 G	916	2423	14356	0119	00018	3699
0050	-0138	32129	759	2586	14397	0177	00040	2143
0075	-0115	3347 E	681 B	2694	14431	0218	00065	1124
0100	-0096 B	3386 C	665 C	2725	14449	0243	00087	0825
0125	-0079	3406 I	675 B	2741	14464	0262	00108	0676
0150	-0063	3420 B	699 B	2751	14478	0278	00130	0578
0175	-0045	3439 C	724 C	2765	14493	0291	00152	0445
0200	-0028	3452 B	730 D	2776	14506	0301	00171	0347
0225	-0015	3459 B	738 D	2780	14517	0309	00189	0302
0250	-0005	34634	742 E	2783	14527	0316	00206	0275
0300	0007	34701	742 E	2788	14542	0329	00242	0231
0400	0015	3475 B	706 B	2792	14563	0350	00319	0196

C-REF-NO 005	YR 1963	DEPTH 403	WAVES 1 00X0	AIR T -05.5	VIS 7
CONS. NO 004	MONTH 9	MXSAMPD 04	WAVES 2 00X0	WET B -06.5	STN
LAT 80-500N	DAY 16	NO.DPTH 12	WND-DIR 020	WW-CODE 15	
LON 67-100W	HR 18.7	W-COLOR	WND-SPD 07	CLD-TPE 7	
MARSD SQ 907	C/I 1810	W-TRNSP	BARO 1009.7	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
187	0000	-017 B	29954	945	2411	14343
187	0010	-0160	30074	952	2420	14351
187	0020	-0164	30500	924	2455	14357
187	0030	-0157	30995	889	2495	14369
187	0050	-0136	32586	720	2623	14404
187	0075	-0098	33461	826 B	2693	14439
187	0100	-0077	33996	693	2735	14460
187	0150	-0022	34204	693	2750	14497
187	0200	-0010	34617	693	2782	14516
187	0250	0000	34656	686	2785	14530
187	0290	0005	34692	679	2788	14539
187	0375	0014	34745	706 B	2791	14558

*WAVES NOT COMPATIBLE WITH WIND

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0170 B	29954	945	2411	14343	0000	00000	3818
0010	-0160	30074	952	2420	14351	0038	00002	3725
0020	-0164	30500	924	2455	14357	0074	00007	3395
0030	-0157	30995	889	2495	14369	0106	00015	3014
0050	-0136	32586	720	2623	14404	0154	00034	1793
0075	-0098	33461	826 B	2693	14439	0191	00057	1132
0100	-0077	33996	693	2735	14460	0215	00077	0730
0125	-0048	3416 I	671 C	2747	14480	0232	00096	0617
0150	-0022	34204	693	2750	14497	0247	00118	0594
0175	-0013	3442 H	693	2767	14508	0260	00139	0433
0200	-0010	34617	693	2782	14516	0269	00157	0286
0225	-0005	3466 E	690	2785	14523	0276	00171	0256
0250	0000	34656	686	2785	14530	0282	00187	0261
0300	0007	34696	684	2788	14541	0295	00222	0234

C-REF-NO 005	YR 1963	DEPTH 390	WAVES 1 00X0	AIR T -05.6	VIS 8
CONS. NO 005	MONTH 9	MXSAMPD 04	WAVES 2 00X0	WET B -06.4	STN
LAT 80-37CN	DAY 17	NO.DPTH 12	WND-DIR 030	WW-CODE 15	
LON 67-500W	HR 00.6	W-COLOR	WND-SPD 17	CLD-TPE 3	
MARSD SQ 907	C/I 1810	W-TRNSP	BARO 1008.5	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
010	0000	-016 B	30251	936	2435	14352
010	0009	-0162	30198	937	2430	14352
010	0018	-0163	30289	920	2438	14354
010	0027	-0157	30899	876	2487	14367
010	0044	-0146	32403	775	2608	14396
010	0066	-0131	33004	748 B	2657	14415
010	0088	-0101	33718	672	2714	14443
010	0133	-0071	34119	679	2745	14470
006	0195	-0023	34512	687	2774	14508
006	0244	-0008	34599	680	2781	14524
006	0293	0003	34673	690	2786	14538
006	0362	0006	34698	693	2788	14551

#WAVES NOT COMPATIBLE WITH WIND

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0160 B	30251	936	2435	14352	0000	00000	3590
0010	-0162	3019 B	936	2430	14352	0036	00002	3634
0020	-0162	3040 D	912	2446	14356	0072	00007	3475
0030	-0155	3118 I	856	2510	14372	0104	00015	2871
0050	-0143	3264 I	764 B	2627	14402	0150	00033	1752
0075	-0119	3331 F	717 B	2681	14427	0188	00057	1241
0100	-0091	3390 I	663 B	2728	14452	0214	00079	0798
0125	-0075	3410 I	670	2744	14467	0232	00100	0648
0150	-0057	3425 B	682	2755	14481	0247	00121	0542
0175	-0037	3441 B	686	2767	14497	0259	00141	0428
0200	-0021	34526	686	2775	14510	0269	00160	0349
0225	-0012	3458 C	682	2779	14519	0277	00178	0314
0250	-0006	34610	681	2782	14526	0285	00197	0293
0300	0003	3467 B	686	2786	14539	0299	00235	0250

C-REF-NO 005	YR 1963	DEPTH 123	WAVES 1 03X3	AIR T -07.4	VIS 8
CONS. NO 006	MONTH 9	MXSAMPD C1	WAVES 2 18X3	WET B -07.9	STN
LAT 80-120N	DAY 17	NO.DPTH 7	WND-DIR 030	WW-CODE C1	
LON 67-490W	HR 20.2	W-COLOR	WND-SPD 27	CLD-TPE 3	
MARSD SQ 907	C/I 1810	W-TRNSP	BARO 1003.5	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
202	0000	-016 B	33074	773	2663	14392
202	0010	-0114	33063	758	2661	14415
202	0020	-0114	33088	758	2663	14417
202	0030	-0110	33200	638 B	2672	14422
202	0049	-0106	33317	673	2681	14428
202	0074	-0095	33715	652	2713	14443
202	0099	-0040	34380	623	2765	14482

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0160 B	33074	773	2663	14392	0000	00000	1416
0010	-0114	33063	758	2661	14415	0014	00001	1436
0020	-0114	33088	758	2663	14417	0029	00003	1416
0030	-0110	33200	638 B	2672	14422	0043	00006	1331
0050	-0106	33328	673	2682	14429	0068	00017	1233
0075	-0088 B	33735	662 B	2714	14447	0096	00034	0926
0100	-0037	34412	621	2767	14484	0113	00048	0429

C-REF-NO 005	YR 1963	DEPTH 334	WAVES 1 0224	AIR T -07.1	VIS 8
CONS. NO 007	MONTH 9	MXSAMPD 03	WAVES 2 18X3	WET B -07.6	STN
LAT 80-115N	DAY 17	NO.DPTH 11	WND-DIR 020	WW-CODE 01	
LON 68-200W	HR 21.8	W-COLOR	WND-SPD 28	CLD-TPE 3	
MARSD SQ 907	C/I 1810	W-TRNSP	BARO 1004.0	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
218	0000	-016 B	32120	723 D	2586	14378
218	0010	-0154	32098	411 D	2584	14382
218	0020	-0153	32168	432 D	2590	14385
218	0030	-0125	32921	291 D	2650	14411
218	0050	-0103	33487	291 D	2695	14432
218	0075	-0096	33783	390 D	2719	14444
218	0100	-0078	33928	461 D	2730	14459
218	0150	-0028	34472	446 D	2771	14498
218	0200	0000	34642	545 C	2784	14521
218	0250	0004	34667	581 C	2786	14531
218	0300	0007	34700	581 C	2788	14542

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0160 B	32120	723 D	2586	14378	0000	00000	2150
0010	-0154	32098	411 D	2584	14382	0022	00001	2167
0020	-0153	32168	432 D	2590	14385	0043	00004	2113
0030	-0125	32921	291 D	2650	14411	0062	00009	1540
0050	-0103	33487	291 D	2695	14432	0086	00020	1112
0075	-0096	33783	390 D	2719	14444	0114	00035	0886
0100	-0078	33928	461 D	2730	14459	0135	00054	0781
0125	-0053	3420 I	459 D	2751	14478	0152	00074	0582
0150	-0028	34472	446 D	2771	14498	0164	00090	0387
0175	-0011	3459 C	492 C	2780	14511	0173	00105	0306
0200	0000	34642	545 C	2784	14521	0180	00119	0272
0225	0004	3466 B	569 B	2785	14527	0187	00134	0256
0250	0004	34667	581 C	2786	14532	0193	00149	0255
0300	0007	34700	581 C	2788	14542	0205	00184	0231

C-REF-NO 005	YR 1963	DEPTH 258	WAVES 1 0121	AIR T -06.6	VIS 8
CONS. NO 008	MONTH 9	MXSAMPD 02	WAVES 2 29X1	WET B -07.1	STN
LAT 80-055N	DAY 17	NO.DPTH 10	WND-DIR 010	HW-CODE 02	
LON 69-140W	HR 23.7	W-COLOR 30	WND-SPD 18	CLD-TPE 5	
MARSD SQ 907	C/I 1810	W-TRNSP 09	BARO 1006.1	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
237	0000	-017 B	30392	885	2446	14349
237	0007	-0168	30432	935	2449	14352
237	0015	-0170	30538	687 B	2458	14354
237	0023	-0152	31709	709 B	2552	14380
237	0038	-0120	32415	780	2609	14407
237	0058	-0122	32464	745	2613	14410
237	0076	-0120	32638	532 B	2627	14417
237	0119	-0089	33884	638 B	2727	14456
237	0163	-0043	34378	411 D	2765	14491
237	0208	-0013	34599	673	2781	14516

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0170 B	30392	885	2446	14349	0000	00000	3480
0010	-0170	3041 I	845 E	2447	14351	0035	00002	3468
0020	-0160	3124 I	684 C	2515	14369	0067	00006	2825
0030	-0135	3220 I	745 B	2591	14396	0091	00013	2095
0050	-0118	3250 I	781	2615	14411	0131	00029	1866
0075	-0120	32624	544 B	2626	14416	0177	00058	1766
0100	-0106	3331 I	558 I	2681	14437	0215	00091	1245
0125	-0083	3398 C	603 D	2734	14461	0240	00119	0737
0150	-0056	3429 F	471 F	2758	14482	0256	00141	0514
0175	-0039	3456 I	574 I	2779	14498	0266	00158	0319
0200	-0019	3462 E	645 E	2783	14512	0274	00173	0282

C-REF-NO 005	YR 1963	DEPTH 158	WAVES 1 0520	AIR T -06.9	VIS 7
CONS. NO 009	MONTH 9	MXSAMPD 01	WAVES 2 XX	WET B -07.6	STN
LAT 79-500N	DAY 18	NO.DPTH 8	WND-DIR 050	WW-CODE 02	
LON 65-500W	HR 11.6	W-COLOR	WND-SPD 09	CLD-TPE 6	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 1006.7	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
116	0000	-012 B	31425	880	2529	14387
116	0010	-0130	31735	870	2554	14389
116	0020	-0087	32442	717 B	2610	14420
116	0030	-0088	32991	785	2654	14429
116	0050	-0101	33201	763	2672	14429
116	0075	-0110	33336	735	2683	14431
116	0100	-0124	33592	707	2704	14432
116	0135	-0118	33823	648	2723	14444

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0120 B	31425	880	2529	14387	0000	00000	2693
0010	-0130	31735	870	2554	14389	0026	00001	2452
0020	-0087	32442	717 B	2610	14420	0048	00005	1920
0030	-0088	32991	785	2654	14429	0065	00009	1498
0050	-0101	33201	763	2672	14429	0094	00020	1332
0075	-0110	33336	735	2683	14431	0126	00041	1224
0100	-0124	33592	707	2704	14432	0154	00066	1022
0125	-0120	3374 D	665	2716	14441	0178	00094	0906

C-REF-NO 005	YR 1963	DEPTH 118	WAVES 1 05X0	AIR T -06.9	VIS 8
CONS. NO 010	MONTH 9	MXSAMPD 01	WAVES 2 XX	WET B -07.6	STN
LAT 79-510N	DAY 18	NO.DPTH 7	WND-DIR 030	WW-CODE 02	
LON 66-460W	HR 13.4	W-COLOR 30	WND-SPD 07	CLD-TPE 4	
MARSD SQ 259	C/I 1810	W-TRNSP C8	BARO 1006.5	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
134	0000	-015 B	31273	690 B	2517	14371
134	0010	-0154	31345	743	2523	14372
134	0020	-0130 B	31509	850 B	2536	14387
134	0030	-0073	32734	765	2633	14433
134	0050	-0099	33146	695	2667	14430
134	0075	-0111	33346	712	2684	14431
134	0100	-0117	33553	622	2701	14435

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.CN	SVA
0000	-0150 B	31273	690 B	2517	14371	0000	00000	2804
0010	-0154	31345	743	2523	14372	0028	00001	2747
0020	-0130 B	31509	850 B	2536	14387	0055	00006	2624
0030	-0073	32734	765	2633	14433	0077	00011	1700
0050	-0099	33146	695	2667	14430	0108	00023	1374
0075	-0111	33346	712	2684	14431	0140	00044	1216
0100	-0117	33553	622	2701	14435	0169	00069	1054

C-REF-NO 005	YR 1963	DEPTH 167	WAVES 1 3321	AIR T -06.8	VIS 8
CONS. NO 011	MONTH 9	MXSAMPD 01	WAVES 2 2023	WET B -07.8	STN
LAT 79-515N	DAY 18	NO.DPTH 8	WNC-DIR 330	WW-CODE 22	
LON 68-140W	HR 15.6	W-COLOR 20	WND-SPD 07	CLD-TPE 6	
MARSD SQ 259	C/I 1810	W-TRNSP 15	BARO 1006.3	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
156	0000	-013 B	31627	723	2545	14385
156	0010	-0108	32481	586 B	2614	14409
156	0020	-0110	33121	715	2666	14419
156	0030	-0115	33259	687	2677	14420
156	0050	-0116	33446	669	2692	14426
156	0075	-0104	33835	680	2723	14441
156	0100	-0051	34294	618	2758	14476
156	0150	0002	34674	585	2786	14514

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0130 B	31627	723	2545	14385	0000	00000	2535
0010	-0108	32481	586 B	2614	14409	0022	00001	1884
0020	-0110	33121	715	2666	14419	0039	00003	1392
0030	-0115	33259	687	2677	14420	0052	00007	1284
0050	-0116	33446	669	2692	14426	0077	00017	1139
0075	-0104	33835	680	2723	14441	0102	00032	0844
0100	-0051	34294	618	2758	14476	0119	00047	0513
0125	-0034 C	3450 I	619 C	2774	14491	0130	00060	0367
0150	0002	34674	585	2786	14514	0138	00070	0249

C-REF-NO 005	YR 1963	DEPTH 176	WAVES 1 XX	AIR T -07.5	VIS 8
CONS. NO 012	MONTH 9	MXSAMPD 01	WAVES 2 XX	WET B -08.3	STN
LAT 79-490N	DAY 18	NO.DPTH 8	WND-DIR 350	WW-CODE 02	
LON 69-480W	HR 18.0	W-COLOR 50	WND-SPD 06	CLD-TPE 4	
MARSD SQ 259	C/I 1810	W-TRNSP 16	BARO 1006.6	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
180	0000	-016 B	32123	841	2586	14378
180	0010	-0157	32342	835	2604	14384
180	0020	-0156	32459	820	2613	14388
180	0030	-0152	32497	813	2616	14392
180	0050	-0112	33147	744	2668	14423
180	0075	-0089	33571	723	2701	14444
180	0100	-0091	33862	710	2725	14452
180	0150	-0025	34451	675	2770	14499

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0160 B	32123	841	2586	14378	0000	00000	2148
0010	-0157	32342	835	2604	14384	0021	00001	1979
0020	-0156	32459	820	2613	14388	0040	00004	1888
0030	-0152	32497	813	2616	14392	0059	00009	1859
0050	-0112	33147	744	2668	14423	0092	00022	1369
0075	-0089	33571	723	2701	14444	0122	00041	1051
0100	-0091	33862	710	2725	14452	0146	00062	0827
0125	-0055 B	3420 F	691	2751	14477	0164	00082	0584
0150	-0025	34451	675	2770	14499	0176	00099	0405

C-REF-NO 005	YR 1963	DEPTH 249	WAVES 1	XX	AIR T -07.6	VIS
CONS. NO 013	MONTH 9	MXSAMPC 02	WAVES 2	XX	WET B -08.5	STN
LAT 79-450N	DAY 18	NO.DPTH 9	WND-DIR 010		WW-CODE 22	
LON 70-330W	HR 21.1	W-COLOR 30	WND-SPD 01		CLD-TPE 3	
MARSD SQ 260	C/I 1810	W-TRNSP 10	BARO 1006.4		CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
211	0000	-016 B	31669	509 C	2549	14372
211	0010	-0170	31650	482 C	2548	14368
211	0020	-0167	31753	439 C	2556	14373
211	0030	-0164	31969	432 C	2574	14379
211	0050	-0139	32487	454 C	2615	14401
211	0075	-0112	33187	396 C	2671	14428
211	0100	-0083	33874	460 C	2726	14455
211	0150	-0019	34516	566 C	2775	14502
211	0200	-0004	34631	212 D	2783	14519

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0160 B	31669	509 C	2549	14372	0000	00000	2497
0010	-0170	31650	482 C	2548	14368	0025	00001	2509
0020	-0167	31753	439 C	2556	14373	0050	00005	2429
0030	-0164	31969	432 C	2574	14379	0074	00011	2262
0050	-0139	32487	454 C	2615	14401	0115	00028	1868
0075	-0112	33187	396 C	2671	14428	0156	00053	1337
0100	-0083	33874	460 C	2726	14455	0183	00076	0821
0125	-0048	3429 F	544 D	2758	14481	0200	00095	0518
0150	-0019	34516	566 C	2775	14502	0211	00111	0358
0175	-0013 B	3470 I	393 F	2789	14512	0218	00123	0225
0200	-0004	34631	212 D	2783	14519	0224	00135	0278

C-REF-NO 005 YR 1963 DEPTH 182 WAVES 1 0320 AIR T -07.3 VIS 8
 CONS. NO 014 MONTH 9 MXSAMPD 02 WAVES 2 XX WET B -08.1 STN
 LAT 79-270N DAY 19 NO.DPTH 9 WND-DIR 03C WW-CODE C2
 LON 70-520W HR 00.8 W-COLOR 3C WND-SPD 01 CLD-TPE 3
 MARSD SQ 260 C/I 1810 W-TRNSP 15 BARO 1005.7 CLD-AMT 7 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
008	0000	-009 B	31505	850	2534	14403
008	0010	-0086	31683	849	2549	14409
008	0020	-0086	31763	824	2555	14411
008	0030	-0101	32756	739	2636	14420
008	0050	-0111	33231	698	2675	14425
008	0075	-0114	33518	698	2698	14432
008	0100	-0116	33701	641	2713	14438
008	0150	-0083	34036	651	2739	14466
008	0170	-0014	34520	671	2775	14508

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0090 B	31505	850	2534	14403	0000	00000	2639
0010	-0086	31683	849	2549	14409	0026	00001	2503
0020	-0086	31763	824	2555	14411	0051	00005	2441
0030	-0101	32756	739	2636	14420	0071	00010	1674
0050	-0111	33231	698	2675	14425	0101	00022	1305
0075	-0114	33518	698	2698	14432	0132	00041	1083
0100	-0116	33701	641	2713	14438	0157	00064	0941
0125	-0115 B	3379 I	632	2720	14443	0180	00090	0870
0150	-0083	34036	651	2739	14466	0200	00118	0695

C-REF-NO 005	YR 1963	DEPTH 163	WAVES 1 0420	AIR T -06.8	VIS 8
CONS. NO 015	MONTH 9	MXSAMPD 01	WAVES 2 XX	WET B -07.5	STN
LAT 79-330N	DAY 19	NO.DPTH 8	WND-DIR 040	HW-CODE 02	
LON 69-060W	HR 03.8	W-COLOR	WND-SPD 01	CLD-TPE 3	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 1003.8	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
038	0000	-011 B	31466	890	2532	14393
038	0010	-0093	31642	869	2546	14405
038	0020	-0098	32868	810	2645	14421
038	0030	-0110	33138	800	2667	14421
038	0050	-0138	33388	770	2688	14415
038	0075	-0139	33506	730	2698	14420
038	0100	-0143	33606	720	2706	14424
038	0145	-0109	33818	680	2722	14450

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0110 B	31466	890	2532	14393	0000	00000	2664
0010	-0093	31642	869	2546	14405	0026	00001	2532
0020	-0098	32868	810	2645	14421	0047	00004	1590
0030	-0110	33138	800	2667	14421	0062	00008	1378
0050	-0138	33388	770	2688	14415	0088	00018	1177
0075	-0139	33506	730	2698	14420	0116	00037	1085
0100	-0143	33606	720	2706	14424	0142	00060	1005
0125	-0126	33727	691	2715	14438	0167	00088	0011

C-REF-NO 005 YR 1963 DEPTH 200 WAVES 1 XX AIR T -06.9 VIS 8
 CONS. NO 016 MONTH 9 MXSAMPD 02 WAVES 2 XX WET B -07.4 -STN
 LAT 79-320N DAY 19 NO.DPTH 9 WND-DIR 040 WW-CODE 02
 LON 66-500W HR 10.8 W-COLOR 30 WND-SPD 04 CLD-TPE 6
 MARSD SQ 259 C/I 1810 W-TRNSP 08 BARO 1001.5 CLD-AMT 8 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
108	0000	-015 B	30530	809	2457	14361
108	0010	-0102	31809	737	2559	14403
108	0020	-0078	32637	597 B	2625	14427
108	0030	-0115	33027	646 B	2658	14417
108	0050	-0130	33353	545 B	2685	14418
108	0075	-0130	33499	657 B	2697	14424
108	0100	-0136	33623	418 C	2707	14427
108	0150	-0114	33863	411 C	2726	14449
108	0175	-0104	33927	545 B	2731	14459

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0150 B	30530	809	2457	14361	0000	00000	3376
0010	-0102	31809	737	2559	14403	0020	00001	2402
0020	-0078	32637	597 B	2625	14427	0050	00004	1773
0030	-0115	33027	646 B	2658	14417	0066	00008	1462
0050	-0130	33353	545 B	2685	14418	0093	00019	1206
0075	-0130	33499	657 B	2697	14424	0122	00038	1093
0100	-0136	33623	418 C	2707	14427	0148	00061	0994
0125	-0128	3375 B	352 D	2717	14437	0172	00088	0896
0150	-0114	33863	411 C	2726	14449	0194	00119	0815
0175	-0104	33927	545 B	2731	14459	0214	00152	0769

C-REF-NO 005	YR 1963	DEPTH 388	WAVES 1 XX	AIR T -06.9	VIS 8
CONS. NO 017	MONTH 9	MXSAMPD 04	WAVES 2 XX	WET B -07.4	STN
LAT 79-320N	DAY 19	NO.DPTH 12	WND-DIR 030	WW-CODE 02	
LON 65-460W	HR 12.6	W-COLOR 30	WND-SPD 04	CLD-TPE 6	
MARSD SQ 259	C/I 1810	W-TRNSP 08	BARO 1000.5	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
126	0000	-013 B	30971	635 C	2492	14376
126	0010	-0106	32550	565 C	2619	14411
126	0020	-0128	32917	634 C	2650	14408
126	0030	-0130	33061	622 C	2661	14410
126	0050	-0149	33339	695 B	2684	14409
126	0075	-0143	33493	334 D	2697	14418
126	0100	-0141	33601	365 D	2705	14424
126	0150	-0111	33856	544 C	2725	14450
126	0200	-0093	33974	357 D	2734	14469
126	0250	-0082	34049	496 D	2740	14483
126	0295	-0078	34076	650	2742	14493
126	0365	-0076	34090		2743	14506

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0130 B	30971	635 C	2492	14376	0000	00000	3040
0010	-0106	32550	565 C	2619	14411	0025	00001	1832
0020	-0128	32917	634 C	2650	14408	0042	00003	1543
0030	-0130	33061	622 C	2661	14410	0056	00007	1431
0050	-0149	33339	695 B	2684	14409	0083	00018	1212
0075	-0143	33493	334 D	2697	14418	0112	00036	1094
0100	-0141	33601	365 D	2705	14424	0139	00060	1010
0125	-0127	3373 C	468 E	2716	14437	0163	00088	0911
0150	-0111	33856	544 C	2725	14450	0185	00119	0822
0175	-0101	3393 B	453 F	2730	14460	0205	00152	0771
0200	-0093	33974	357 D	2734	14469	0224	00189	0736
0225	-0087	34017	404 D	2737	14476	0242	00228	0705
0250	-0082	34049	496 D	2740	14483	0259	00271	0682
0300	-0077	34084		2742	14494	0293	00366	0656

C-REF-NO 005	YR 1963	DEPTH 319	WAVES 1 1420	AIR T -04.8	VIS 7
CONS. NO 018	MONTH 9	MXSAMPD 03	WAVES 2 XX	WET B -05.5	STN
LAT 79-03N	DAY 20	NO.DPTH 11	WND-DIR 130	WW-CODE 22	
LON 70-110W	HR 02.1	W-COLOR	WND-SPD 03	CLD-TPE 6	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 995.6	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
021	0000	-012 B	31384	882	2525	14387
021	0010	-0120	31358		2523	14388
021	0020	-0056	32352	886	2602	14434
021	0030	-0094		844		
021	0050	-0124		815		
021	0075	-0126		764		
021	0100	-0121		716		
021	0150	-0100		607 B		
021	0200	-0080		695		
021	0250	-0072		682		
028	0300	-0054	34251	674	2755	14507

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
0000	-0120 B	31384	882	2525	14387	0000	00000	2725
0010	-0120	31358	880	2523	14388	0028	00001	2744
0020	-0056	32352	886	2602	14434	0051	00005	1999
0030	-0094	3206 I	844	2580	14413	0073	00010	2208
0050	-0124	3247 I	815	2613	14408	0114	00027	1888
0075	-0126	3292 I	764	2650	14418	0157	00054	1540
0100	-0121	33308	716	2681	14430	0192	00085	1241
0125	-0111	3364 I	650 B	2707	14443	0220	00117	0990
0150	-0100	3391 I	607 B	2729	14456	0242	00148	0787
0175	-0089	3412 I	645 C	2745	14468	0260	00178	0631
0200	-0080	34263	695	2757	14479	0275	00206	0521
0225	-0076	3435 I	695	2764	14486	0287	00233	0455
0250	-0072	3438 I	682	2766	14492	0298	00260	0436
0300	-0054	34251	674	2755	14507	0323	00330	0539

C-REF-NO 005	YR 1963	DEPTH 246	WAVES 1 XX	AIR T -04.8	VIS 7
CONS. NO 019	MONTH 9	MXSAMPD 01	WAVES 2 XX	WET B -05.5	STN
LAT 79-030N	DAY 20	NO.DPTH 8	WND-DIR 130	WW-CODE 22	
LON 71-160W	HR 05.6	W-COLOR	WND-SPD 02	CLD-TPE 6	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 995.1	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
056	0000	-015 B	31184	869	251C	14370
056	0010	-0140	31263	717 B	2516	14377
056	0020	-0127	31962	810	2572	14395
056	0030	-0079	32312	832	2599	14424
056	0050	-0106	33222	732	2674	14427
056	0075	-0112	33547	712	2700	14433
056	0100	-0118	33729	684	2715	14437
056	0150	-0092	33960	663	2733	14461

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0150 B	31184	869	2510	14370	0000	00000	2872
0010	-0140	31263	717 B	2516	14377	0029	00001	2812
0020	-0127	31962	810	2572	14395	0054	00005	2277
0030	-0079	32312	832	2599	14424	0076	00011	2021
0050	-0106	33222	732	2674	14427	0109	00024	1314
0075	-0112	33547	712	2700	14433	0139	00043	1062
0100	-0118	33729	684	2715	14437	0164	00065	0919
0125	-0107	3390 D	674	2728	14449	0186	00089	0793
0150	-0092	33960	663	2733	14461	0205	00117	0749

C-REF-NO 005	YR 1963	DEPTH	268	WAVES 1 36X0	AIR T -07.3	VIS 2
CONS. NO 020	MONTH 9	MXSAMPD	02	WAVES 2 XX	WET B -07.5	STN
LAT 79-020N	DAY 20	NO.DPTH	10	WNC-DIR 330	WW-CODE 02	
LON 73-020W	HR 13.7	W-COLOR		WND-SPD 03	CLD-TPE 7	
MARSD SQ 260	C/I 1810	W-TRNSP	13	BARO 997.2	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
137	0000	-015 B	30092	930	2422	14354
137	0010	-0161	30141	945	2426	14352
137	0020	-0156	30220	923	2432	14357
137	0030	-0137	30355	922	2443	14369
137	0050	-0119	30862	511 D	2483	14388
137	0075	-0148	31394	875	2527	14386
137	0100	-0125	31772	817	2557	14406
137	0150	-0090	33773	685	2718	14459
137	0200	-0047	34290	668 B	2758	14495
137	0250	-0012	34575	678	2779	14523

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0150 B	30092	930	2422	14354	0000	00000	3714
0010	-0161	30141	945	2426	14352	0037	00002	3673
0020	-0156	30220	923	2432	14357	0074	00007	3612
0030	-0137	30355	922	2443	14369	0110	00017	3510
0050	-0119	30862	511 D	2483	14388	0176	00044	3122
0075	-0148	31394	875	2527	14386	0249	00090	2704
0100	-0125	31772	817	2557	14406	0314	00147	2417
0125	-0107	3276 I	745	2636	14433	0365	00205	1662
0150	-0090	33773	685	2718	14459	0397	00249	0893
0175	-0069	3414 I	668	2746	14478	0416	00281	0622
0200	-0047	34290	668 B	2758	14494	0431	00308	0516
0225	-0031	3464 I	657 B	2785	14511	0441	00329	0254
0250	-0012	34575	678	2779	14523	0448	00346	0316

C-REF-NO 005	YR 1963	DEPTH 209	WAVES 1 36X0	AIR T -07.4	VIS 8
CONS. NO 021	MONTH 9	MXSAMPD 02	WAVES 2 XX	WET B -07.5	STN
LAT 79-010N	DAY 20	NO.DPTH 9	WND-DIR 270	WW-CODE 15	
LON 73-480W	HR 16.5	W-COLOR	WND-SPD 01	CLD-TPE 6	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 997.9	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
165	0000	-015 8	30187	925	2429	14356
165	0010	-0160	30190	949	2430	14353
165	0020	-0159	30230	943	2433	14355
165	0030	-0150	30396	920	2446	14364
165	0050	-0146	30694	910	2470	14373
165	0075	-0150	31936	840	2571	14393
165	0100	-0105	33063	755	2661	14434
165	0150	-0058	34198	692	2751	14480
165	0175	-0056	34227	692	2753	14485

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0150 B	30187	925	2429	14356	0000	00000	3641
0010	-0160	30190	949	2430	14353	0037	00002	3636
0020	-0159	30230	943	2433	14355	0073	00007	3604
0030	-0150	30396	920	2446	14364	0109	00017	3476
0050	-0146	30694	910	2470	14373	0176	00044	3245
0075	-0150	31936	840	2571	14393	0246	00087	2287
0100	-0105	33063	755	2661	14434	0292	00128	1433
0125	-0074	33814	709	2720	14463	0321	00160	0869
0150	-0058	34198	692	2751	14480	0340	00186	0582
0175	-0056	34227	692	2753	14485	0354	00210	0560

C-REF-NO 005	YR 1963	DEPTH 383	WAVES 1 2120	AIR T -05.0	VIS 8
CONS. NO 022	MONTH 9	MXSAMPD 04	WAVES 2 XX	WET B -05.5	STN
LAT 78-400N	DAY 20	NO.DPTH 12	WND-DIR 270	WW-CODE 02	
LON 73-380W	HR 20.8	W-COLOR 30	WND-SPD 05	CLD-TPE 4	
MARSD SQ 260	C/I 1810	W-TRNSP 13	BARO 996.6	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
208	0000	-015 B	30467	918	2452	14360
208	0010	-0161	30460	940	2451	14356
208	0020	-0164	30457	905	2451	14356
208	0029	-0161	30496	937	2454	14360
208	0048	-0148	30796	917	2478	14373
208	0072	-0114	31783	842	2558	14407
208	0095	-0113	32781	770	2638	14425
208	0143	-0094	33909	695	2729	14458
208	0191	-0072	34138	678	2746	14479
208	0239	-0051	34301	671	2759	14499
208	0287	-0046	34335	403 D	2761	14510
208	0355	-0040	34376	294 D	2764	14525

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0150 B	30467	918	2452	14360	0000	00000	3425
0010	-0161	30460	940	2451	14356	0034	00002	3427
0020	-0164	30457	905	2451	14356	0069	00007	3428
0030	-0161	30503	938	2455	14360	0103	00016	3392
0050	-0145	3086 C	912	2484	14376	0169	00042	3114
0075	-0113	3192 B	832	2569	14410	0237	00085	2308
0100	-0112	3295 B	758	2652	14429	0285	00127	1518
0125	-0103	3361 E	714	2705	14447	0317	00163	1011
0150	-0091	3397 F	690	2734	14461	0339	00193	0740
0175	-0079	3412 I	680	2745	14473	0356	00222	0635
0200	-0067	34176	686 B	2749	14483	0372	00252	0593
0225	-0056	34264	686 B	2756	14494	0386	00283	0531
0250	-0049	34315	614 C	2760	14502	0399	00314	0495
0300	-0041	3437 E	456 I	2764	14515	0423	00381	0453

C-REF-NO 005	YR 1963	DEPTH	548	WAVES 1	2210	AIR T	-01.1	975
CONS. NO 023	MONTH 9	MXSAMPD	04	WAVES 2	XX	WET B	-01.0	514
LAT 78-380N	DAY 20	NO.DPTH	13	WND-DIR	210	WW-CODE	03	
LON 73-120W	HR 22.8	W-COLOR	30	WND-SPD	16	CLD-TPE	4	
MARSD SQ 260	C/I 1810	W-TRNSP	13	BARO	995.5	CLD-AMT	8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
228	0000	-015 B	30505	918	2455	14360
228	0009	-0161	30492	922	2454	14356
228	0019	-0162	30591	874	2462	14359
228	0028	-0158	30710	907	2472	14364
228	0047	-0139	31301	895	2519	14384
228	0070	-0119	32347	818	2603	14412
228	0094	-0110	32909	755	2648	14428
228	0141	-0098	33658	719	2709	14452
228	0189	-0088	33849	712	2724	14467
228	0236	-0060	34187	693	2750	14493
228	0284	-0046	34325	687	2760	14509
228	0379	-0028	34470	683	2771	14535
228	0428	-0026	34485	683	2772	14545

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0150 B	30505	918	2455	14360	0000	00000	3396
0010	-0161	30498	916	2455	14356	0034	00002	3398
0020	-0162	30601	876	2463	14359	0068	00007	3317
0030	-0156	30756	909	2475	14366	0101	00015	3198
0050	-0136	3144 E	886	2530	14388	0160	00039	2672
0075	-0117	3249 D	803	2615	14416	0217	00074	1869
0100	-0108	33033	746	2658	14432	0259	00111	1455
0125	-0102	33460	723	2693	14445	0291	00148	1129
0150	-0097	3371 F	717	2713	14455	0317	00185	0939
0175	-0092	3382 H	713	2721	14463	0340	00222	0859
0200	-0082	3393 D	708	2730	14473	0361	00262	0774
0225	-0067	3411 D	697	2744	14487	0378	00301	0643
0250	-0055	3424 B	690	2754	14498	0393	00337	0548
0300	-0042	34361	686	2763	14514	0419	00409	0462
0400	-0027	34483	682	2772	14540	0461	00559	0376

C-REF-NO 005	YR 1963	DEPTH 319	WAVES 1 02XX	AIR T -01.4	VIS 7
CONS. NO 024	MONTH 9	MXSAMPD 03	WAVES 2 XX	WET B -02.6	STN
LAT 78-360N	DAY 21	NO.DPTH 11	WND-DIR 020	WW-CODE 03	
LON 72-350W	HR 10.0	W-COLOR 30	WND-SPD 27	CLD-TPE 4	
MARSD SQ 260	C/I 1810	W-TRNSP 10	BARO 994.0	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
100	0000	-015 B	30653	895	2467	14362
100	0010	-0152	30629	782 B	2465	14363
100	0020	-0152	30647	895	2466	14365
100	0029	-0150	30920	874	2489	14371
100	0049	-0116	32456	838	2612	14412
100	0073	-0109	33173	769	2670	14429
100	0098	-0109	33496	735	2696	14438
100	0147	-0108	33732	705	2715	14450
100	0196	-0104	33905	680	2729	14462
100	0245	-0090	33981	662	2734	14478
100	0295	-0074	34092	663	2743	14495

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0150 B	30653	895	2467	14362	0000	00000	3281
0010	-0152	30629	782 B	2465	14363	0033	00002	3298
0020	-0152	30647	895	2466	14365	0066	00007	3284
0030	-0148	3099 F	872	2494	14373	0098	00015	3018
0050	-0115	3250 B	835	2616	14413	0147	00034	1863
0075	-0109	3321 B	765	2673	14430	0187	00059	1321
0100	-0109	33511	733	2697	14438	0217	00085	1089
0125	-0109	3366 F	715	2709	14445	0243	00115	0972
0150	-0108	33745	703	2716	14450	0267	00149	0908
0175	-0107	33841	690	2724	14456	0289	00185	0834
0200	-0103	33912	678	2729	14463	0309	00224	0779
0225	-0096	3395 B	668	2732	14471	0329	00266	0749
0250	-0090	3401 E	663	2737	14479	0347	00311	0706
0300	-0072	34099	664	2743	14497	0381	00407	0646

C-REF-NO 005	YR 1963	DEPTH 319	WAVES 1 1923	AIR T -01.4	VIS 8
CONS. NO 025	MONTH 9	MXSAMPD 03	WAVES 2 19X7	WET A -02.6	STN
LAT 78-275N	DAY 21	NO.DPTH 11	WND-DIR 190	WW-CODE 02	
LON 72-580W	HR 12.7	W-COLOR	WND-SPD 27	CLD-TPE 6	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 994.5	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
127	0000	-015 B	31039	885	2498	14368
127	0010	-0163	31046	890	2499	14363
127	0019	-0163	31183	883	2510	14367
127	0028	-0132	32741	791	2635	14405
127	0047	-0118	33427	752	2691	14424
127	0071	-0112	33543	738	2700	14432
127	0094	-0112	33628	727	2707	14437
127	0141	-0109	33786	700	2719	14449
127	0189	-0090	33964	677	2733	14468
127	0237	-0080	34060	670	2740	14482
127	0261	-0074	34091	668	2743	14489

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0150 B	31039	885	2498	14368	0000	00000	2984
0010	-0163	31046	890	2499	14363	0030	00002	2975
0020	-0160	3134 I	874	2523	14371	0059	00006	2748
0030	-0129	3291 I	781	2649	14409	0080	00011	1549
0050	-0117	3347 E	749	2694	14426	0107	00022	1124
0075	-0112	33559	736	2701	14433	0135	00039	1053
0100	-0112	33648	724	2708	14439	0160	00062	0983
0125	-0111	33732	709	2715	14444	0184	00090	0917
0150	-0106	33822	695	2722	14452	0207	00121	0850
0175	-0096	33915	683	2729	14462	0227	00155	0781
0200	-0087	33992	675	2735	14472	0246	00192	0725
0225	-0082	34042	671	2739	14479	0264	00231	0688
0250	-0076	34081	668	2742	14486	0281	00272	0660

C-REF-NO 005	YR 1963	DEPTH 429	WAVES 1 1923	AIR T -01.5	VIS 8
CONS. NO 026	MONTH 9	MXSAMPD 04	WAVES 2 19X7	WET B -02.4	STN
LAT 78-280N	DAY 21	NO.DPTH 12	WND-DIR 190	WW-CODE 02	
LON 73-300W	HR 15.0	W-COLOR	WND-SPD 21	CLD-TPE 6	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 994.6	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
150	0000	-015 B	30723	903	2473	14363
150	0009	-0160	30739	898	2474	14360
150	0018	-0161	30733	902	2474	14361
150	0026	-0159	30748	905	2475	14364
150	0044	-0137	31761	840	2556	14391
150	0066	-0106	33125	757	2666	14429
150	0088	-0113	33320	757	2682	14432
150	0133	-0114	33428	752	2691	14440
150	0178	-0114	33718	715	2714	14452
150	0223	-0101	33936	660	2731	14468
150	0270	-0070	34060	623 B	2740	14492
150	0365	-0039	34369	684 B	2764	14527

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0150 B	30723	903	2473	14363	0000	00000	3227
0010	-0160	30738	898	2474	14360	0032	00002	3213
0020	-0161	3072 C	904	2473	14361	0065	00007	3223
0030	-0155	3091 I	895	2488	14368	0096	00015	3079
0050	-0127	3218 I	813	2590	14403	0149	00035	2104
0075	-0107	3328 I	752	2678	14432	0191	00061	1267
0100	-0114	3336 F	758	2685	14434	0222	00089	1203
0125	-0115	3342 E	754	2690	14438	0252	00123	1158
0150	-0115	3353 C	741	2699	14444	0280	00162	1069
0175	-0114	33697	718	2712	14451	0305	00205	0941
0200	-0109	33835	688	2723	14459	0328	00248	0836
0225	-0100	33942	658	2732	14469	0348	00291	0757
0250	-0084	3401 B	635	2737	14482	0366	00336	0709
0300	-0065 B	3419 F	630	2750	14501	0399	00427	0580

C-REF-NO 005	YR 1963	DEPTH 322	WAVES 1 1923	AIR T -01.0	VIS 8
CONS. NO 027	MONTH 9	MXSAMPD 03	WAVES 2 19X4	WET B -02.0	STN
LAT 78-310N	DAY 21	NO.DPTH 11	WND-DIR 190	WW-CODE 02	
LON 73-580W	HR 17.6	W-COLOR 50	WND-SPD 13	CLD-TPE 4	
MARSD SQ 260	C/I 1810	W-TRNSP 12	BARO 995.4	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
176	0000	-015 B	30720	909	2472	14363
176	0010	-0162	30613	918	2464	14358
176	0019	-0164	30605	916	2463	14358
176	0029	-0162	30619	909	2464	14361
176	0048	-0143	31534	847	2538	14386
176	0072	-0109	32662	796	2628	14422
176	0094	-0110	33163	769	2669	14432
176	0146	-0103	33654	725	2708	14451
176	0195	-0082	33953	691	2732	14473
176	0245	-0051	34271	691	2756	14500
176	0295	-0040	34360	691	2763	14514

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0150 B	30720	909	2472	14363	0000	00000	3230
0010	-0162	30613	918	2464	14358	0033	00002	3309
0020	-0164	3060 B	916	2463	14358	0066	00007	3319
0030	-0161	3065 C	906	2467	14362	0099	00015	3276
0050	-0140	3164 C	842	2547	14389	0158	00038	2519
0075	-0108	3275 B	792	2636	14424	0210	00071	1673
0100	-0110	3325 E	763	2676	14434	0248	00104	1289
0125	-0108	3353 I	741	2698	14443	0277	00138	1077
0150	-0102	33681	721	2711	14452	0303	00174	0959
0175	-0092	3384 B	702	2723	14463	0326	00211	0840
0200	-0079	3399 B	690	2735	14476	0346	00249	0730
0225	-0063	3416 C	689	2748	14489	0363	00286	0609
0250	-0054	3425 H	685	2755	14499	0377	00321	0543
0300	-0039	3437 B	693	2763	14516	0402	00392	0459

C-REF-NO 005 YR 1963 DEPTH 237 WAVES 1 21X0 AIR T -01.0 VIS 8
 CONS. NO 028 MONTH 9 MXSAMPD 02 WAVES 2 XX WET B -02.6 STN
 LAT 78-330N DAY 21 NO.DPTH 9 WND-DIR 220 WW-CODE 02
 LON 74-340W HR 20.2 W-COLOR WND-SPD 07 CLD-TPE 4
 MARSD SQ 260 C/I 1810 W-TRNSP 11 BARO 996.1 CLD-AMT 7 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
202	0000	-015 B	30568	903	2460	14361
202	0010	-0157	30563	903	2460	14359
202	0020	-0156	30706	897	2471	14363
202	0030	-0153	30940	883	2490	14370
202	0049	-0131	31418	850	2528	14390
202	0074	-0111	32411	797	2608	14418
202	0099	-0104	32955	757	2652	14433
202	0148	-0069	34043	699	2739	14472
202	0196	-0062	34127	691	2745	14485

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0150 B	30568	903	2460	14361	0000	00000	3347
0010	-0157	30563	903	2460	14359	0034	00002	3349
0020	-0156	30706	897	2471	14363	0067	00007	3237
0030	-0153	30940	883	2490	14370	0098	00015	3057
0050	-0130	3146 B	848	2532	14391	0156	00038	2661
0075	-0111	32437	795	2610	14418	0213	00074	1913
0100	-0103	3298 B	755	2654	14433	0256	00112	1496
0125	-0085	3359 I	721	2703	14455	0288	00148	1033
0150	-0077 B	3391 I	701	2728	14467	0311	00180	0794
0175	-0068	3409 I	691	2743	14478	0330	00210	0657
*0200	-0061	3412 E	692	2745	14486	0346	00241	0638

C-REF-NO 005	YR 1963	DEPTH 593	WAVES 1 2021	AIR T -01.9	VIS 9
CONS. NO 029	MONTH 9	MXSAMPD 05	WAVES 2 XX	WET B -02.8	STN
LAT 78-190N	DAY 21	NO.DPTH 12	WND-DIR 200	WW-CODE 02	
LON 74-500W	HR 23.7	W-COLOR	WND-SPD 06	CLD-TPE 4	
MARSD SQ 260	C/I 1810	W-TRNSP 11	BARO 996.7	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
237	0000	-014 B	30359	903	2443	14363
237	0010	-0153	30406	860	2447	14359
237	0020	-0147	30749	861	2475	14368
237	0029	-0126	31191	860	2510	14386
237	0049	-0100	32180	840	2589	14415
237	0073	-0111	32848	804	2644	14424
237	0097	-0100	33191	705	2671	14437
237	0146	-0097	33738	683	2715	14455
237	0195	-0071	34051	672	2739	14479
237	0293	-0044	34318	592 B	2760	14512
237	0391	-0039	34370	682	2764	14531
237	0489	-0033	34412	619	2767	14551

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0140 B	30359	903	2443	14363	0000	00000	3510
0010	-0153	30406	860	2447	14359	0035	00002	3470
0020	-0147	30749	861	2475	14368	0069	00007	3206
0030	-0124	31245	859	2514	14388	0099	00015	2828
0050	-0100	32217	839	2592	14416	0148	00034	2086
0075	-0110	3288 B	796	2646	14425	0194	00063	1570
0100	-0100	33231	700	2674	14439	0231	00095	1306
0125	-0098	33530	677 B	2698	14448	0261	00129	1076
0150	-0095	33770	682	2718	14457	0286	00164	0893
0175	-0082	3395 B	677	2731	14469	0306	00198	0764
0200	-0069	34073	667	2741	14481	0325	00233	0671
0225	-0060	3417 C	643 B	2748	14491	0341	00268	0601
*0250	-0052	3424 D	621 B	2754	14500	0355	00303	0547
0300	-0043	34325	598 B	2760	14513	0381	00377	0488
0400	-0035	3441 G	627 G	2767	14535	0427	00541	0427

C-REF-NO 005	YR 1963	DEPTH 491	WAVES 1 1821	AIR T -01.8	VIS 8
CONS. NO 030	MONTH 9	MXSAMPD 05	WAVES 2 XX	WET B -02.8	STN
LAT 78-205N	DAY 22	NO.DPTH 12	WND-DIR 180	WW-CODE 02	
LON 74-180W	HR 02.4	W-COLOR	WND-SPD 10	CLD-TPE 4	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 996.5	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
024	0000	-012 B	32369	820	2605	14401
024	0010	-0113	32592	812	2623	14409
024	0020	-0080	33312	829	2680	14436
024	0030	-0097	33388	749	2687	14431
024	0050	-0102	33601	719	2704	14435
024	0075	-0103	33643	715	2708	14439
024	0100	-0112	33787	646 B	2720	14441
024	0150	-0086	33987	668	2735	14464
024	0200	-0062	34090	644	2742	14485
024	0300	-0045	34257	656	2755	14512
024	0400	-0036	34401	678	2766	14534
026	0460	-0031	34438	650	2769	14547

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0120 B	32369	820	2605	14401	0000	00000	1968
0010	-0113	32592	812	2623	14409	0019	00001	1797
0020	-0080	33312	829	2680	14436	0034	00003	1255
0030	-0097	33388	749	2687	14431	0047	00006	1191
0050	-0102	33601	719	2704	14435	0069	00015	1025
0075	-0103	33643	715	2708	14439	0094	00032	0991
0100	-0112	33787	646 B	2720	14441	0118	00053	0877
0125	-0103	33900	647 C	2728	14451	0139	00077	0792
0150	-0086	33987	668	2735	14464	0158	00104	0731
0175	-0073	34045	658	2739	14475	0176	00134	0691
0200	-0062	34090	644	2742	14485	0193	00166	0661
0225	-0055	34135	643	2746	14493	0209	00202	0629
0250	-0050	34178	644	2749	14500	0225	00240	0598
0300	-0045	34257	656	2755	14512	0254	00320	0539
0400	-0036	34401	678	2766	14534	0303	00494	0433

C-REF-NO 005	YR 1963	DEPTH 557	WAVES 1 1821	AIR T -01.8	VIS 8
CONS. NO 031	MONTH 9	MXSAMPD 05	WAVES 2 XX	WET B -02.8	STN
LAT 78-215N	DAY 22	NO.DPTH 13	WND-DIR 180	WW-CODE 02	
LON 73-430W	HR 04.1	W-COLOR	WND-SPD 09	CLD-TPE 7	
MARSD SQ 26C	C/I 1810	W-TRNSP	BARO 996.3	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
041	0000	-013 B	32268	840	2597	14394
041	0008	-0139	32231	832	2594	14391
041	0016	-0139	32275	832	2598	14393
041	0024	-0087	33008	785	2656	14429
041	0041	-0097	33321	748	2681	14431
041	0061	-0100	33530	724	2698	14436
041	0082	-0105	33647	719	2708	14439
041	0123	-0112	33789	699	2720	14445
041	0167	-0096	33930	674	2731	14461
041	0255	-0045	34187	647	2749	14503
041	0347	-0036	34251	643	2754	14523
041	0443	-0040	34344	670 B	2762	14539
048	0478	-0038	34343	669 B	2762	14545

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SWA
0000	-0130 B	32268	840	2597	14394	0000	00000	2043
0010	-0142	3221 F	834	2592	14390	0021	00001	2087
0020	-0114	3262 I	810	2625	14410	0040	00004	1774
0030	-0082 B	3322 I	766	2673	14435	0056	00008	1323
0050	-0099	33432	735	2690	14434	0081	00018	1156
0075	-0103	33615	720	2705	14438	0108	00035	1012
0100	-0110	3372 B	711	2714	14441	0133	00057	0931
0125	-0112	33796	698	2720	14445	0155	00083	0869
0150	-0104	33877	683	2727	14454	0176	00113	0808
0175	-0091	33958	670	2733	14465	0196	00146	0750
0200	-0076	3404 B	661	2739	14478	0214	00181	0693
*0225	-0061	3411 B	653	2744	14489	0231	00217	0644
*0250	-0048	34175	648	2748	14501	0247	00256	0601
0300	-0037	3423 C	642	2752	14515	0276	00339	0564
0400	-0038	3431 C	659 B	2759	14532	0330	00530	0501

C-REF-NO 005	YR 1963	DEPTH 246	WAVES 1 2021	AIR T -02.0	VIS 7
CONS. NO 032	MONTH 9	MXSAMPD 02	WAVES 2 XX	WET B -03.0	STN
LAT 78-230N	DAY 22	NO.DPTH 9	WND-DIR 190	WW-CODE 70	
LON 72-540W	HR 09.9	W-COLOR 30	WND-SPD 10	CLD-TPE 7	
MARSD SQ 260	C/I 1810	W-TRNSP 10	BARO 995.8	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
099	0000	-008 B	32737	812	2634	14424
099	0010	-0082	32727	825	2633	14425
099	0019	-0078	32755	812	2635	14429
099	0029	-0064	32768	819	2636	14437
099	0049	-0040	32894	789	2645	14453
099	0074	-0061	33159	776	2667	14451
099	0098	-0104	33767	705	2718	14444
099	0147	-0107	33800	699	2720	14451
099	0196	-0106	33903	670	2729	14461

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0080 B	32737	812	2634	14424	0000	00000	1697
0010	-0082	32727	825	2633	14425	0017	00001	1703
0020	-0077	32756	813	2635	14429	0034	00003	1682
0030	-0062	32772	818	2636	14438	0051	00008	1675
0050	-0040	32900	789	2645	14454	0084	00021	1584
0075	-0063	3319 B	773	2669	14451	0121	00045	1356
0100	-0105	3378 D	703	2719	14444	0149	00069	0882
0125	-0113 B	3388 I	692 B	2727	14446	0170	00094	0803
0150	-0124 D	3406 I	666 D	2742	14447	0189	00119	0660
0175	-0119 B	3404 I	662 C	2740	14453	0206	00148	0676
*0200	-0102	3386 H	673	2725	14463	0224	00184	0816

C-REF-NO 005	YR 1963	DEPTH 282	WAVES 1 XX	AIR T -02.1	VIS 7
CONS. NO 033	MONTH 9	MXSAMPD 03	WAVES 2 XX	WET B -03.1	STN
LAT 78-100N	DAY 22	NO.DPTH 10	WND-DIR 200	WW-CODE 70	
LON 73-200W	HR 12.2	W-COLOR 30	WND-SPD 11	CLD-TPE 6	
MARSD SQ 260	C/I 1810	W-TRNSP 12	BARO 995.3	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
122	0000	-013 B	32101	829	2584	14392
122	0010	-0140	32128	834	2586	14389
122	0020	-0096	32350	824	2603	14415
122	0030	0005	32804	804	2636	14470
122	0049	-0023	33167	777	2666	14465
122	0074	-0101	33620	740	2706	14439
122	0098	-0123	33745	706	2716	14435
122	0146	-0118	33868	678	2726	14447
122	0197	-0084	33998	650	2736	14473
125	0252	-0052	34124	640	2744	14498

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0130 B	32101	829	2584	14392	0000	00000	2171
0010	-0140	32128	834	2586	14389	0022	00001	2147
0020	-0096	32350	824	2603	14415	0043	00004	1987
0030	0005	32804	804	2636	14470	0061	00009	1678
0050	-0026	33189	776	2668	14464	0092	00021	1369
0075	-0103	33629	738	2706	14439	0122	00040	1002
0100	-0124	33752	704	2717	14435	0146	00061	0900
0125	-0126	3383 B	687	2723	14439	0167	00086	0842
0150	-0116	33878	675	2727	14448	0188	00116	0803
0175	-0100	33943	661	2732	14461	0208	00148	0758
0200	-0088	34003	652	2736	14471	0226	00184	0716
0225	-0072	34062	645	2740	14484	0244	00222	0677
*0250	-0054	34119	640	2744	14497	0261	00263	0641

C-REF-NO 005	YR 1963	DEPTH 758	WAVES 1 2121	AIR T -02.0	VIS 8
CONS. NO 034	MONTH 9	MXSAMPD 05	WAVES 2 XX	WET B -02.6	STN
LAT 78-110N	DAY 22	NO.DPTH 13	WND-DIR 210	WW-CODE 15	
LON 73-460W	HR 13.9	W-COLOR	WND-SPD 12	CLD-TPE 8	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 993.6	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
139	0000	-014 B	31782	846	2558	14383
139	0009	-0141	31931	840	2570	14386
139	0019	-0095	32692	812	2630	14420
139	0028	-0088	32845	795	2643	14427
139	0046	-0090	33152	777	2667	14433
139	0069	-0098	33360	750	2685	14436
139	0092	-0106	33511	728	2697	14438
139	0138	-0096	33826	699	2722	14455
139	0185	-0079	34014	684	2737	14473
139	0232	-0061	34152	668	2747	14491
139	0280	-0050	34279	663	2757	14506
139	0377	-0038	34350	670	2762	14529
139	0476	-0034	34407	687	2767	14548

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0140 B	31782	846	2558	14383	0000	00000	2414
0010	-0137	3201 F	837	2576	14389	0023	00001	2241
0020	-0093	3272 C	810	2633	14421	0043	00004	1703
0030	-0088	32882	793	2646	14428	0060	00008	1581
0050	-0091	3320 B	772	2671	14434	0089	00020	1337
0075	-0101	33402	744	2688	14437	0121	00040	1177
0100	-0106	3357 B	722	2702	14441	0149	00065	1045
0125	-0101	3374 B	705	2716	14449	0174	00093	0913
0150	-0092	33883	695	2727	14460	0195	00124	0808
0175	-0083	33982	687	2734	14469	0215	00156	0735
0200	-0073	34061	678	2740	14479	0233	00190	0678
0225	-0063	34133	670	2746	14489	0249	00226	0627
0250	-0056	34204	665	2751	14497	0264	00263	0575
0300	-0047	3430 B	663	2759	14511	0291	00340	0503
0400	-0035	3440 G	671	2766	14535	0339	00508	0433

C-REF-NO 005	YR 1963	DEPTH 703	WAVES 1 2320	AIR T -02.3	VIS 5
CONS. NO 035	MONTH 9	MXSAMPD 06	WAVES 2 XX	WET B -03.1	STN
LAT 78-110N	DAY 22	NO.DPTH 14	WND-DIR 230	WW-CODE 71	
LON 74-150W	HR 16.7	W-COLOR 50	WND-SPD 08	CLD-TPE 7	
MARSD SQ 260	C/I 1810	W-TRNSP 13	BARO 991.5	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
167	0000	-012 B	32291	819	2599	14399
167	0009	-0110	32264	818	2596	14405
167	0018	-0108	32730	795	2634	14414
167	0027	-0106	32832	802	2642	14418
167	0045	-0090	33105	780	2664	14432
167	0067	-0102	33379	740	2686	14434
167	0090	-0106	33653	719	2708	14440
167	0136	-0102	33844	696	2724	14452
167	0182	-0066	34111	670	2744	14480
167	0276	-0039	34302	658	2758	14511
167	0372	-0037	34402	669	2766	14529
167	0469	-0032	34460	671	2771	14548
167	0567	-0028	34467	673	2771	14567
175	0641	-0028	34496	675	2773	14579

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
0000	-0120 B	32291	819	2599	14399	0000	00000	2027
0010	-0110	3231 E	815	2600	14406	0020	00001	2013
0020	-0108	3277 D	796	2637	14415	0039	00004	1664
0030	-0103	32876	800	2646	14421	0055	00008	1581
0050	-0092	33171	771	2669	14433	0085	00020	1358
0075	-0104	3348 B	731	2695	14436	0116	00039	1114
0100	-0107	3371 E	713	2713	14442	0142	00062	0936
0125	-0105	3382 F	700	2722	14448	0164	00088	0855
0150	-0092	3393 B	688	2730	14460	0185	00117	0774
0175	-0072	3407 B	674	2741	14476	0203	00147	0671
0200	-0057	3417 C	665	2748	14488	0219	00178	0602
0225	-0048	3423 E	660	2753	14497	0234	00210	0557
*0250	-0042	3428 D	657	2756	14505	0247	00244	0526
0300	-0037	34333	660	2761	14516	0273	00315	0485
0400	-0036	34424	670	2768	14535	0318	00477	0416
0500	-0030	34463	672	2771	14554	0359	00664	0387
0600	-0028	3449 B	674	2773	14572	0397	00880	0369

C-REF-NO 005	YR 1963	DEPTH 630	WAVES 1 XX	AIR T -04.1	VIS 3
CONS. NO 036	MONTH 9	MXSAMPD 05	WAVES 2 XX	WET B -04.1	STN
LAT 78-110N	DAY 22	NO.DPTH 14	WND-DIR 240	WW-CODE 73	
LON 74-50CW	HR 19.2	W-COLOR 30	WND-SPD 05	CLD-TPE 4	
MARSD SQ 260	C/I 1810	W-TRNSP 11	BARO 989.6	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
192	0000	-016 B	31057	875 B	2500	14363
192	0007	-0164	30655	897 B	2467	14357
192	0014	-0162	31007	888 B	2496	14364
192	0021	-0157	31329	868 B	2522	14372
192	0036	-0090	31683	945 C	2549	14411
192	0053		33021	861 B		
192	0070	-0097	33575	739	2702	14440
192	0106	-0100	33723	712	2714	14446
192	0140	-0077	34019	650 B	2737	14467
192	0215	-0046 C	34139	633 B	2745	14495
192	0294	-0052 C	34276	689 B	2757	14508
192	0378	-0040	34371	677	2764	14528
192	0465	-0034	34421	845 D	2768	14546
198	0530	-0032 C	34427	719 B	2768	14558

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0160 B	31057	875 B	2500	14363	0000	00000	2968
0010	-0164	3076 I	896 B	2476	14359	0031	00002	3194
0020	-0158	31287	870 B	2518	14371	0061	00006	2789
0030	-0119 B	3152 I	913 C	2537	14394	0088	00013	2616
0050	-0080 C	3278 I	884 B	2637	14433	0131	00030	1663
0075	-0098	3363 I	727 B	2707	14441	0165	00050	1001
0100	-0101	3374 I	707 B	2715	14445	0189	00072	0916
0125	-0088	3389 D	677	2727	14457	0211	00097	0807
0150	-0071	3406 E	641 B	2740	14472	0230	00123	0685
0175	-0059 B	3412 I	628 B	2744	14483	0246	00151	0640
*0200	-0050 B	3414 G	627 B	2746	14491	0262	00182	0626
0225	-0046 C	34157	640 B	2747	14497	0278	00216	0616
0250	-0047 C	34202	657 B	2751	14501	0293	00253	0581
0300	-0051 C	34284	687 B	2757	14509	0321	00330	0515
0400	-0038	34388	729 D	2765	14533	0369	00502	0441
0500	-0032 B	34428	747 F	2768	14553	0412	00701	0413

C-REF-NO 005	YR 1963	DEPTH 246	WAVES 1 XX	AIR T -04.1	VIS 3
CONS. NO 037	MONTH 9	MXSAMPD 02	WAVES 2 XX	WET B -04.1	STN
LAT 78-110N	DAY 22	NO.DPTH 9	WND-DIR 250	WW-CODE 73	
LON 75-200W	HR 21.4	W-COLOR 30	WND-SPD 05	CLD-TPE 4	
MARSD SQ 260	C/I 1810	W-TRNSP 11	BARO 989.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
214	0000	-015 B	30528	902	2457	14361
214	0010	-0160	30542	914	2458	14358
214	0019	-0159	30683	909	2470	14362
214	0028	-0160	30701	889	2471	14363
214	0047	-0127	31752	840	2555	14396
214	0071	-0107	32987	825	2655	14427
214	0095	-0099	33376	734	2686	14440
214	0142	-0087	33808	705	2720	14460
214	0189	-0070	34056	683	2740	14479

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0150 B	30528	902	2457	14361	0000	00000	3378
0010	-0160	30542	914	2458	14358	0034	00002	3364
0020	-0159	3068 C	907	2469	14362	0067	00007	3257
0030	-0157	3078 H	883	2477	14366	0100	00015	3178
0050	-0124	3193 E	839	2570	14401	0155	00037	2298
0075	-0105	3309 F	811	2663	14430	0201	00065	1418
0100	-0098	3344 B	726	2691	14442	0234	00094	1150
0125	-0091	3369 C	704 B	2711	14453	0260	00124	0959
0150	-0083	3390 H	672 D	2728	14464	0282	00155	0797
0175	-0075	3402 D	672 B	2737	14474	0301	00187	0707

C-REF-NO 005 YR 1964 STN 648 WAVES 1 XX AIR T -02.0 VIS 2
 CONS. NO 038 MONTH JAN SAMPL 03 WAVES 2 XX WET B -02.0 STN
 LAT 78-070N DAY 01 DPTH 10 WND-DIR 170 WW-COLE 75
 LON 75-040W HR 22:17 W-COLOR 30 WND-SPD 12 CDD-TPE X
 MARSC SQ 260 C/I 181 W-TRNSP 11 BARO 987.4 TD-AMT 9 HW

OBSERVED

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
227	0000	-015 B	30767	896	2476	14364
227	0010	-0163	30628	890	2465	14357
227	0020	-0165	30626	889	2465	14358
227	0030	-0164	30664	907 B	2468	14361
227	0050	-0131	31796	848	2559	14396
227	0075	-0106	33079	769	2662	14429
227	0100	-0092	33311	757	2680	14443
227	0150	-0087	33845	702	2723	14461
227	0200	-0066	34110	654	2744	14483
227	0295	-0046	34326	606 B	2761	14511

INTERPOLATED

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
0000	-0150 B	30767	896	2476	14364	0000	00000	3194
0010	-0163	30628	890	2465	14357	0033	00002	3298
0020	-0165	30626	889	2465	14358	0066	00007	3298
0030	-0164	30664	907 B	2468	14361	0099	00015	3267
0050	-0131	31796	848	2559	14396	0156	00038	2401
0075	-0106	33079	769	2662	14429	0204	00067	1422
0100	-0092	33311	757	2680	14443	0238	00097	1248
0125	-0089	3359 E	732	2703	14453	0266	00130	1035
0150	-0087	33845	702	2723	14461	0290	00163	0839
0175	-0077	3400 B	675	2736	14472	0310	00195	0723
0200	-0066	34110	654	2744	14483	0327	00229	0644
0225	-0066	3426 H	661 B	2756	14490	0342	00261	0533
0250	-0059	3432 F	666	2760	14498	0355	00292	0487
*0300	-0044	34318	701 B	2760	14513	0379	00362	0493

C-REF-NO 005	YR 1963	DEPTH 721	WAVES 1 1720	AIR T -02.0	VIS 2
CONS. NO 039	MONTH 9	MXSAMPD 07	WAVES 2 XX	WET B -02.0	STN
LAT 78-050N	DAY 23	NO.DPTH 14	WND-DIR 170	WW-CODE 75	
LON 74-000W	HR 01.4	W-COLOR	WND-SPD 12	CLD-TPE X	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 987.4	CLD-AMT 9	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
014	0000	-015 B	31702	846	2552	14377
014	0010	-0132	32301	825	2600	14396
014	0020	-0101	32723	797	2633	14418
014	0030	-0096	32943	784	2651	14425
014	0050	-0101	33296	747	2679	14431
014	0075	-0102	33554	728	2700	14438
014	0100	-0092	33811	705	2721	14450
014	0150	-0086	33953	693	2732	14463
014	0200	-0072	34082	655	2742	14480
014	0300	-0046	34305	674	2759	14512
014	0400	-0039	34445	695	2770	14533
014	0500	-0032	34391	684	2765	14553
014	0600	-0029	34475	683	2772	14572
018	0710	-0028	34461	692	2771	14590

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0150 B	31702	846	2552	14377	0000	00000	2474
0010	-0132	32301	825	2600	14396	0023	00001	2016
0020	-0101	32723	797	2633	14418	0041	00004	1700
0030	-0096	32943	784	2651	14425	0058	00008	1532
0050	-0101	33296	747	2679	14431	0086	00019	1259
0075	-0102	33554	728	2700	14438	0115	00038	1060
0100	-0092	33811	705	2721	14450	0139	00059	0865
0125	-0088	3391 G	698	2729	14458	0160	00083	0787
0150	-0086	33953	693	2732	14463	0179	00111	0757
0175	-0079	34019	674	2737	14472	0198	00141	0708
0200	-0072	34082	655	2742	14480	0215	00175	0663
0225	-0064	34144	654	2747	14489	0231	00210	0618
0250	-0058	34202	656	2751	14497	0246	00246	0577
0300	-0046	34305	674	2759	14512	0274	00323	0502
0400	-0039	34445	695	2770	14534	0319	00484	0398
0500	-0032	34391	684	2765	14553	0361	00681	0441
0600	-0029	34475	683	2772	14572	0403	00913	0377
0700	-0028	3446 B	691	2770	14589	0442	01173	0390

C-REF-NO 005	YR 1963	DEPTH 740	WAVES 1 XX	AIR T -01.0	VIS 1
CONS. NO 040	MONTH 9	MXSAMPD 04	WAVES 2 XX	WET B	STN
LAT 77-590N	DAY 23	NO.DPTH 13	WND-DIR 350	WW-CODE 75	
LON 74-100W	HR 04.5	W-COLOR	WND-SPD 13	CLD-TPE X	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 985.0	CLD-AMT 9	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
045	0000	-015 B	30705	889	2471	14363
045	0007	-0160	30867	882	2484	14362
045	0014	-0160	30950	881	2491	14364
045	0020	-0130	31975	840	2573	14394
045	0033	-0105	32874	790	2645	14420
045	0049	-0097	33149	769	2667	14430
045	0066	-0102	33362	742	2685	14434
045	0099	-0101	33706	704	2713	14445
045	0131	-0101	33878	684	2727	14452
045	0197	-0054	34137	650	2746	14489
045	0262	-0052	34271	683 B	2756	14502
045	0341	-0045	34343	677	2762	14520
045	0427	-0035	34401	692 B	2766	14539

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0150 B	30705	889	2471	14363	0000	00000	3241
0010	-0163	3083 I	884	2482	14360	0032	00002	3139
0020	-0130	31975	840	2573	14394	0059	00006	2266
0030	-0108	3277 I	798	2637	14417	0079	00010	1658
0050	-0097	33163	767	2669	14431	0109	00023	1362
0075	-0102	33469	730	2693	14437	0141	00042	1125
0100	-0101	33713	703	2713	14445	0167	00065	0937
0125	-0102	33853	687	2725	14451	0189	00091	0829
0150	-0088 B	33966	670	2733	14462	0209	00119	0747
0175	-0071 B	34065	657	2740	14476	0227	00149	0677
0200	-0053	34145	651	2746	14489	0243	00180	0623
0225	-0051	34206	662	2751	14496	0258	00213	0577
*0250	-0051	34253	676 B	2755	14500	0272	00247	0540
0300	-0049	34313	682	2760	14510	0299	00321	0495
0400	-0039	3439 B	693 B	2766	14533	0346	00489	0436

C-REF-NO 005	YR 1963	DEPTH 173	WAVES 1	XX	AIR T -05.3	VIS 8
CONS. NO 041	MONTH 9	MXSAMPD 01	WAVES 2	XX	WET B -06.5	STN
LAT 76-090N	DAY 24	NO.DPTH 8	WND-DIR 290		WW-CODE 01	
LON 79-200W	HR 02.3	W-COLOR	WND-SPD 15		CLD-TPE 3	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 995.0		CLD-AMT 5	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
023	0000	-013 B	31759	850	2556	14387
023	0008	-0131	31749	858	2555	14388
023	0015	-0098	32004	857	2575	14408
023	0023	-0076	32220	846	2592	14423
023	0038	-0058	32490	834	2613	14437
023	0058	-0064	32673	814	2628	14441
023	0077	-0082	32949	788	2651	14439
023	0115	-0101	33340	739	2683	14442

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0130 B	31759	850	2556	14387	0000	00000	2434
0010	-0123	3181 D	859	2560	14393	0024	00001	2394
0020	-0083	32147	851	2586	14418	0047	00005	2147
0030	-0065	32364	840	2603	14431	0068	00010	1986
0050	-0059	3261 D	823	2622	14441	0106	00025	1802
0075	-0080	32919	791	2648	14439	0148	00052	1553
0100	-0091	3317 E	760	2669	14442	0185	00085	1358

C-REF-NO 005 YR 1963 DEPTH 160 WAVES 1 2912 AIR T -05.3 VIS 8
 CONS. NO 042 MONTH 9 MXSAMPD 01 WAVES 2 31XX WET B -06.5 STN
 LAT 76-12CN DAY 24 NO.DPTH 8 WND-DIR 310 WW-CODE 01
 LON 79-32CW HR 03.6 W-COLOR WND-SPD 13 CLD-TPE 3
 MARSQ SQ 260 C/I 1810 W-TRNSP BARO 995.7 CLD-AMT 5 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
036	0000	-013 B	31213	883	2512	14380
036	0010	-0132	31315	866	2520	14382
036	0019	-0115	31783	849	2558	14398
036	0029	-0093	31972	849	2572	14412
036	0048	-0060	32299	840	2598	14436
036	0072	-0053	32529	822	2616	14446
036	0096	-0066	32742	795	2633	14447
036	0134	-0090	33254	724	2676	14449

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0130 B	31213	883	2512	14380	0000	00000	2854
0010	-0132	31315	866	2520	14382	0028	00001	2774
0020	-0113	3181 B	849	2560	14399	0054	00005	2397
0030	-0091	31991	849	2574	14414	0078	00011	2263
0050	-0058	32322	839	2599	14437	0121	00029	2019
0075	-0054	32554	819	2618	14446	0169	00060	1842
0100	-0064	3281 E	788	2639	14449	0213	00099	1640
0125	-0081	3313 B	743	2665	14450	0251	00142	1390

C-REF-NO 005	YR 1963	DEPTH 151	WAVES 1 3022	AIR T -05.3	VIS 8
CONS. NO 043	MONTH 9	MXSAMPD 01	WAVES 2 30XX	WET B -06.5	STN
LAT 76-150N	DAY 24	NO.DPTH 8	WND-DIR 300	WW-CODE 02	
LON 79-460W	HR 05.3	W-COLOR	WND-SPD 18	CLD-TPE 3	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 995.7	CLD-AMT 3	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
053	0000	-013 B	30957	863	2491	14376
053	0010	-0121	30917	871	2488	14381
053	0019		30943	879		
053	0029	-0095	31274	861	2516	14402
053	0048	-0072	31739	849	2553	14422
053	0073	-0066	32248	829	2594	14436
053	0097	-0053	32417	807	2607	14449
053	0121	-0078	33027	751	2657	14449

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0130 B	30957	863	2491	14376	0000	00000	3051
0010	-0121	30917	871	2488	14381	0031	00002	3083
0020	-0108	3097 B	878	2492	14390	0062	00006	3044
0030	-0094	31302	860	2518	14403	0091	00014	2792
0050	-0071	31788	848	2557	14424	0143	00035	2424
0075	-0064	3226 C	828	2594	14437	0200	00071	2064
0100	-0062 B	3260 I	796	2622	14447	0249	00114	1802

C-REF-NO 005	YR 1963	DEPTH 237	WAVES 1 31X1	AIR T -05.0	VIS 8
CONS. NO 044	MONTH 9	MXSAMPD 02	WAVES 2 25X1	WET B	STN
LAT 76-060N	DAY 24	NO.DPTH 9	WND-DIR 300	WW-CODE 02	
LON 81-060W	HR 09.2	W-COLOR	WND-SPD 11	CLD-TPE 4	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1001.0	CLD-AMT 4	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
092	0000	-006 B	31625	855	2543	14418
092	0010	-0078	31589	849	2541	14411
092	0019	-0078	31592	823 B	2541	14413
092	0029	-0076	31617		2543	14415
092	0049	-0092	31823	839	2560	14414
092	0073	-0056	32186	891 D	2588	14440
092	0097	-0048	32508	807 B	2614	14452
092	0146	-0087	33576	672	2702	14457
092	0194	-0073	33946	622	2731	14477

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0060 B	31625	855	2543	14418	0000	00000	2556
0010	-0078	31589	849	2541	14411	0026	00001	2577
0020	-0078	31593	822 B	2541	14413	0052	00005	2574
0030	-0077	31624	817 B	2544	14415	0078	00012	2550
0050	-0091	31837	842	2561	14415	0127	00032	2380
0075	-0054	32211	886 D	2590	14441	0184	00068	2104
0100	-0050	3258 D	797 B	2619	14453	0233	00112	1826
0125	-0069 B	3313 I	722 B	2665	14456	0274	00158	1396
0150	-0069 D	3345 I	670 B	2690	14464	0306	00203	1152
0175	-0071 B	3375 I	636 B	2715	14472	0332	00246	0918

C-REF-NO 005	YR 1963	DEPTH 694	WAVES 1 3022	AIR T -05.2	VIS 8
CONS. NO 045	MONTH 9	MXSAMPD 06	WAVES 2 25X4	WET B -06.0	STN
LAT 76-010N	DAY 24	NO.DPTH 13	WND-DIR 300	WW-CODE 70	
LON 81-100W	HR 10.6	W-COLOR	WND-SPD 24	CLD-TPE 7	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1003.6	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
106	0000	-006 B	31512	839	2534	14417
106	0010	-0060	31487	826	2532	14418
106	0020	-0060	31487	812	2532	14420
106	0029	-0048	31794	835	2556	14431
106	0049	-0087	32504	769	2615	14426
106	0073	-0100	32765	743	2637	14428
106	0097	-0095	33056	706	2660	14438
106	0146	-0090	33478	680	2694	14454
106	0195	-0082	33890	637	2727	14472
106	0294	-0043	34175	587	2748	14510
106	0393	-0029	34291	560	2757	14535
106	0493	-0024	34326	558	2760	14554
106	0593	-0018	34350	563	2761	14574

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0060 B	31512	839	2534	14417	0000	00000	2643
0010	-0060	31487	826	2532	14418	0027	00001	2661
0020	-0060	31487	812	2532	14420	0053	00005	2661
0030	-0049	3183 B	833	2560	14431	0079	00012	2397
0050	-0088	3252 B	767	2616	14426	0122	00029	1857
0075	-0100	32790	740	2638	14428	0166	00057	1646
0100	-0095	33085	704	2662	14439	0204	00091	1420
0125	-0092	3331 C	688	2680	14448	0238	00130	1246
0150	-0090	33515	677	2697	14456	0267	00171	1090
0175	-0086	3373 B	655	2714	14465	0293	00213	0924
0200	-0080	3392 B	634	2729	14474	0314	00254	0786
0225	-0070	3402 G	618	2737	14484	0333	00295	0707
*0250	-0061	3410 H	605	2743	14494	0350	00337	0649
0300	-0042	34186	585	2749	14512	0382	00425	0595
0400	-0029	34295	559	2757	14536	0438	00625	0517
0500	-0022	3434 C	555	2761	14557	0488	00859	0485
0600	-0018	34349	564	2761	14575	0537	01134	0479

C-REF-NO 005	YR 1963	DEPTH 657	WAVES 1 3122	AIR T -04.4	VIS 8
CONS. NO 046	MONTH 9	MXSAMPD 05	WAVES 2 2834	WET B -05.5	STN
LAT 75-560N	DAY 24	NO.DPTH 13	WND-DIR 310	WW-CODE 15	
LON 81-120W	HR 14.3	W-COLOR	WND-SPD 18	CLD-TPE 3	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1003.8	CLD-AMT 5	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
143	0000	-007 B	31610	856	2542	14413
143	0007	-0069	31596	853	2541	14415
143	0014	-0070	31594	853	2541	14415
143	0022	-0068	31597	855	2541	14418
143	0036	-0010	31915	835	2565	14451
143	0054	-0025	32211	812	2589	14452
143	0071	-0083	32618	775	2624	14433
143	0106	-0090	33067	775	2661	14442
143	0142	-0096	33370	708	2685	14449
143	0215	-0075	33901	630	2727	14479
143	0292	-0044	34150	559	2746	14509
143	0378	-0029	34272	565	2755	14532
143	0471	-0023	34320	597	2759	14551

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
0000	-0070 B	31610	856	2542	14413	0000	00000	2564
0010	-0069	31594	853	2541	14415	0026	00001	2576
0020	-0070	3159 B	855	2541	14417	0052	00005	2579
0030	-0035 B	3176 G	845	2553	14436	0077	00012	2460
0050	-0015	3215 C	818	2583	14454	0124	00031	2172
0075	-0088	3269 B	774	2630	14432	0173	00061	1729
0100	-0094	3301 C	774	2656	14438	0213	00097	1474
0125	-0094	3324 B	743	2675	14446	0248	00137	1301
0150	-0095	33438	697	2691	14452	0279	00181	1147
0175	-0090	3364 C	667	2706	14461	0306	00225	0998
*0200	-0081	3381 B	642	2720	14472	0330	00270	0867
0225	-0071	33946	618	2731	14483	0350	00315	0766
0250	-0060	3404 C	593	2738	14493	0369	00360	0697
0300	-0042	34166	557	2747	14512	0402	00453	0610
0400	-0025	3431 C	558 B	2758	14538	0458	00653	0510

C-REF-NO 005	YR 1963	DEPTH 570	WAVES 1 3122	AIR T -04.4	VIS 8
CONS. NO 047	MONTH 9	MXSAMPD 04	WAVES 2 2834	WET B -05.5	STN
LAT 75-535N	DAY 24	NO.DPTH 13	WND-DIR 310	WW-CODE 15	
LON 81-100W	HR 16.3	W-COLOR	WND-SPD 18	CLD-TPE 3	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1003.8	CLD-AMT 5	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
163	0000	-010 B	31235	869	2513	14394
163	0008	-0092	31210	863	2511	14399
163	0016	-0093	31212	860	2511	14400
163	0024	-0091	31200	856	2510	14402
163	0040	-0088	31232	858	2512	14406
163	0060	-0082	31267	860	2515	14413
163	0080	-0059	31392	850	2524	14429
163	0120	-0064	32711	785	2631	14451
163	0161	-0090	33399	680	2687	14456
163	0203	-0087	33783	647	2718	14469
163	0245	-0063		605		
163	0333	-0037	34178	588	2748	14520
163	0425	-0027	34308	552	2758	14541

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0100 B	31235	869	2513	14394	0000	00000	2844
0010	-0092	31210	862	2511	14399	0029	00001	2865
0020	-0092	31206	858	2510	14401	0058	00006	2867
0030	-0090	31208	856	2510	14403	0086	00013	2865
0050	-0086	3124 B	860	2513	14409	0144	00037	2836
0075	-0065	3134 C	854	2520	14424	0214	00082	2768
0100	-0056	3200 I	824	2573	14442	0277	00138	2262
0125	-0067	3282 B	771	2640	14452	0326	00193	1630
0150	-0083	3326 D	707	2676	14455	0363	00245	1285
0175	-0092	3355 C	665	2700	14459	0393	00293	1060
0200	-0088	33763	648	2717	14468	0417	00341	0899
0225	-0075	3390 H	624	2727	14480	0439	00387	0799
0250	-0061	3401 I	603	2736	14492	0458	00434	0721
0300	-0044	3415 I	590	2746	14510	0492	00529	0624
0400	-0027	3433 I	554	2760	14538	0548	00728	0489

C-REF-NO 005	YR 1963	DEPTH 639	WAVES 1 2322	AIR T -04.0	VIS 8
CONS. NO 048	MONTH 9	MXSAMPD 08	WAVES 2 36X1	WET B -04.8	STN
LAT 76-320N	DAY 24	NO.DPTH 16	WND-DIR 230	WW-CODE 15	
LONG 82-320W	HR 20.2	W-COLOR 30	WND-SPD 15	CLD-TPE 4	
MARSD SQ 261	C/I 1810	W-TRNSP 09	BARO 1008.2	CLD-AMT 5	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
208	0000	-003 B	31240	856	2511	14427
208	0010	-0024	31219	856	2509	14431
208	0020	-0023	31217	863	2509	14433
208	0030	-0020	31268	835	2513	14437
208	0050	0009	31780	835	2553	14461
208	0075	0003	32110	822	2580	14466
208	0100	-0088	32479	792	2613	14434
208	0150	-0093	33098	708	2663	14448
208	0200	-0086	33568	672	2701	14466
208	0250	-0068	33992	615	2734	14489
202	0295	-0048	34162	580	2747	14508
202	0393	-0030	34277	565	2756	14534
202	0491	-0026	34320	552	2759	14553
202	0590	-0016	34340	580	2760	14574
202	0688	-0014	34368	580	2762	14592
202	0787	-0016	34392		2764	14608

*DEPTH OF BOTTOM OBSERVATION GREATER THAN SOUNDING

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
0000	-0030 B	31240	856	2511	14427	0000	00000	2861
0010	-0024	31219	856	2509	14431	0029	00001	2879
0020	-0023	31217	863	2509	14433	0058	00006	2880
0030	-0020	31268	835	2513	14437	0087	00013	2842
0050	0009	31780	835	2553	14461	0140	00035	2461
0075	0003	32110	822	2580	14466	0199	00072	2205
0100	-0088	32479	792	2613	14434	0250	00118	1886
0125	-0106 C	32808	749	2640	14434	0294	00168	1627
0150	-0093	33098	708	2663	14448	0333	00222	1408
0175	-0091	3335 B	688	2683	14457	0366	00277	1218
0200	-0086	33568	672	2701	14466	0394	00331	1049
0225	-0078	3380 C	644	2719	14477	0419	00384	0875
0250	-0068	33992	615	2734	14489	0439	00433	0731
0300	-0046	34173	578	2748	14510	0472	00528	0602
0400	-0030	34282	563	2756	14536	0529	00731	0527
0500	-0025	34322	554	2759	14555	0581	00969	0497
0600	-0016	34343	569 B	2760	14576	0631	01249	0485
0700	-0013	34369		2762	14594	0679	01570	0466

C-REF-NO 005	YR 1963	DEPTH	99	WAVES 1 0220	AIR T -04.4	VIS	8
CONS. NO 049	MONTH 9	MXSAMPD	01	WAVES 2 2722	WET B -05.6	STN	
LAT 76-155N	DAY 25	NO.DPTH	6	WND-DIR 020	WW-CODE 01		
LON 84-020W	HR 00.4	W-COLOR		WND-SPD 05	CLD-TPE 4		
MARSD SQ 261	C/I 1810	W-TRNSP		BARO 1008.8	CLD-AMT 5	HW	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
004	0000	-008 B	31273	875	2515	14404
004	0010	-0080	31322	882	2519	14406
004	0020	-0064	31342	890	2520	14416
004	0030	-0067	31485	875	2532	14418
004	0050	-0043	32222	822	2591	14443
004	0075	-0073	32456	793	2611	14436

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0080 B	31273	875	2515	14404	0000	00000	2820
0010	-0080	31322	882	2519	14406	0028	00001	2782
0020	-0064	31342	890	2520	14416	0056	00006	2771
0030	-0067	31485	875	2532	14418	0083	00013	2659
0050	-0043	32222	822	2591	14443	0131	00032	2102
0075	-0073	32456	793	2611	14436	0182	00064	1910

C-REF-NO 005	YR 1963	DEPTH 121	WAVES 1 00XC	AIR T -04.0	VIS 8
CONS. NO 050	MONTH 9	MXSAMPD 01	WAVES 2 2631	WET B -05.0	STN
LAT 76-075N	DAY 25	NO.DPTH 7	WND-DIR CALM	WW-CODE 71	
LON 84-210W	HR 02.5	W-COLOR	WND-SPD 00	CLU-TPE 4	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1008.7	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
025	0000	-013 B	31782	863	2558	14388
025	0010	-0142	31608	848	2544	14381
025	0020	-0145	32117	797	2585	14388
025	0030	-0106	32424	752	2609	14413
025	0050	-0096	32787	747	2638	14426
025	0075	-0098	32966	729	2653	14432
025	0100	-0095	33099	711	2663	14439

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0130 B	31782	863	2558	14388	0000	00000	2416
0010	-0142	31608	848	2544	14381	0025	00001	2547
0020	-0145	32117	797	2585	14388	0049	00005	2154
0030	-0106	32424	752	2609	14413	0069	00010	1927
0050	-0096	32787	747	2638	14426	0105	00025	1650
0075	-0098	32966	729	2653	14432	0145	00050	1511
0100	-0095	33099	711	2663	14439	0182	00083	1409

C-REF-NO 005 YR 1963 DEPTH 740 WAVES 1 00X0 AIR T -04.0 VIS 8
 CONS. NO 051 MONTH 9 MXSAMPD 07 WAVES 2 XX WET B -05.0 STN
 LAT 76-050N DAY 25 NO.DPTH 14 WND-DIR CALM WW-CODE 71
 LON 84-120W HR 03.8 W-COLOR WND-SPD 00 CLD-TPE 3
 MARSD SQ 261 C/I 1810 W-TRNSP BARO 1008.7 CLD-AMT 6 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
038	0000	-013 B	31458	873	2532	14383
038	0010	-0123 B	31467	873	2532	14388
038	0020	-0100 B	32473	845	2613	14415
038	0030	-0098	32671	822	2629	14420
038	0050	-0096	32834	757	2642	14427
038	0075	-0094	33109	710	2664	14435
038	0100	-0088	33317	694	2681	14445
038	0150	-0084	33420	677	2689	14457
038	0200	-0078	33635	654	2706	14471
038	0300	-0055	34143	568	2746	14505
038	0400	-0034	34293	576	2757	14534
038	0500	-0025	34342	560	2761	14555
038	0600	-0020	34368	565	2763	14574
049	0708	-0016				

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0130 B	31458	873	2532	14383	0000	00000	2665
0010	-0123 B	31467	873	2532	14388	0027	00001	2659
0020	-0100 B	32473	845	2613	14415	0050	00005	1892
0030	-0098	32671	822	2629	14420	0068	00009	1740
0050	-0096	32834	757	2642	14427	0102	00023	1614
0075	-0094	33109	710	2664	14435	0140	00047	1403
0100	-0088	33317	694	2681	14445	0173	00077	1245
0125	-0085	3339 G	685	2686	14452	0204	00112	1190
0150	-0084	33420	677	2689	14457	0233	00154	1165
0175	-0081	33519	667	2697	14464	0262	00201	1089
0200	-0078	33635	654	2706	14471	0288	00252	1001
0225	-0073	3377 E	631	2717	14479	0312	00304	0896
0250	-0067	3391 F	608 B	2727	14488	0333	00356	0798
0300	-0055	34143	568	2746	14505	0369	00456	0621
0400	-0034	34293	576	2757	14534	0427	00660	0516
0500	-0025	34342	560	2761	14555	0477	00892	0482
0600	-0020	34368	565	2763	14574	0525	01162	0464
0700	-0016							

C-REF-NO 005	YR 1963	DEPTH 641	WAVES 1 2121	AIR T -04.4	VIS 8
CONS. NO 052	MONTH 9	MXSAMPD 06	WAVES 2 2931	WET B -04.9	STN
LAT 75-580N	DAY 25	NO.DPTH 13	WND-DIR 210	WW-CODE 7C	
LON 84-040W	HR 10.4	W-COLOR	WND-SPD 08	CLD-TPE 7	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1008.7	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
104	0000	-014 B	31346	868	2523	14377
104	0010	-0133	31425	878	2529	14383
104	0020	-0121	31731	850	2554	14394
104	0030	-0105	32253	795	2595	14411
104	0050	-0032	32650	796	2625	14454
104	0075	-0089	33008	750	2656	14436
104	0100	-0095	33227	712	2674	14441
104	0150	-0083	33584	670	2702	14460
104	0200	-0080	33819	651	2721	14473
104	0300	-0045	34219	581	2752	14511
104	0400	-0029	34315	569	2759	14536
104	0500	-0022	34365	565	2763	14557
104	0600	-0016	34380	560	2763	14576

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0140 B	31346	868	2523	14377	0000	00000	2750
0010	-0133	31425	878	2529	14383	0027	00001	2689
0020	-0121	31731	850	2554	14394	0053	00005	2456
0030	-0105	32253	795	2595	14411	0076	00011	2058
0050	-0032	32650	796	2625	14454	0115	00027	1779
0075	-0089	33008	750	2656	14436	0156	00052	1482
0100	-0095	33227	712	2674	14441	0191	00084	1311
0125	-0090	33420	687	2689	14450	0222	00120	1164
0150	-0083	33584	670	2702	14460	0250	00159	1040
0175	-0082	3371 B	660	2712	14466	0275	00200	0943
0200	-0080	33819	651	2721	14473	0297	00244	0860
0225	-0072	3394 B	633	2730	14482	0318	00288	0772
0250	-0064	3404 C	615	2738	14492	0337	00333	0694
0300	-0045	34219	581	2752	14511	0368	00423	0568
0400	-0029	34315	569	2759	14536	0422	00615	0502
0500	-0022	34365	565	2763	14557	0471	00840	0466
0600	-0016	34380	560	2763	14576	0518	01104	0457

C-REF-NO 005	YR 1963	DEPTH 584	WAVES 1 2121	AIR T -04.4	VIS 8
CONS. NO 053	MONTH 9	MXSAMPD 06	WAVES 2 2931	WET B -04.9	STN
LAT 75-520N	DAY 25	NO.DPTH 14	WND-DIR 210	WW-CODE 70	
LON 84-000W	HR 12.5	W-COLOR	WND-SPD 08	CLD-TPE 7	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1008.7	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
125	0000	-014 B	31252	877	2515	14375
125	0008	-0136	31431	868	2530	14381
125	0017	-0114 B	31386	870	2525	14392
125	0026	-0136	31586	863	2542	14386
125	0042	-0126	31834	856	2562	14397
125	0064	-0111	32229	807	2594	14413
125	0085	-0090	32763	751	2636	14434
125	0128	-0093	33218	709	2673	14446
125	0170	-0084	33527	672	2698	14462
125	0214	-0083	33826	634	2722	14474
125	0257	-0053	34142	588	2746	14499
125	0341	-0032		566		
136	0470	-0026	34345	559	2761	14550
136	0569	-0017	34376	573	2763	14571

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0140 B	31252	877	2515	14375	0000	00000	2822
0010	-0130	3142 E	868	2529	14384	0028	00001	2692
0020	-0120 B	3144 D	868	2530	14391	0055	00006	2679
0030	-0136	3165 B	862	2548	14388	0081	00012	2511
0050	-0121	3196 B	841	2572	14403	0129	00032	2274
0075	-0099	3251 E	777	2616	14425	0181	00064	1859
0100	-0088	3298 I	731	2653	14440	0223	00102	1504
0125	-0092	3320 C	710	2672	14446	0259	00143	1329
0150	-0089	3339 B	689	2687	14454	0291	00187	1186
0175	-0084	33561	668	2700	14463	0319	00234	1056
0200	-0084	33731	647	2714	14469	0344	00282	0925
0225	-0076	33910	622	2728	14480	0366	00329	0791
0250	-0058	34093	595	2742	14495	0384	00373	0659
0300	-0038	3428 I	570	2757	14515	0414	00457	0524
0400	-0028	3441 I	559	2767	14538	0462	00627	0428
0500	-0019	3450 I	561	2773	14560	0502	00811	0366

C-REF-NO 005	YR 1963	DEPTH 142	WAVES 1 2821	AIR T -04.5	VIS 8
CONS. NO 054	MONTH 9	MXSAMPD 01	WAVES 2 2732	WET B -05.2	STN
LAT 75-450N	DAY 25	NO.DPTH 9	WND-DIR 280	WW-CODE 02	
LON 87-300W	HR 19.4	W-COLOR	WND-SPD 12	CLD-TPE 3	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1007.4	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
194	0000	-012 B	31574	868	2541	14389
194	0009	-0130	31544	869	2539	14386
194	0019	-0155	31724	878	2554	14378
194	0028	-0165	31734	883	2555	14375
194	0047	-0136	31796	863	2559	14393
194	0070	-0090	32552	842	2619	14429
194	0093	-0096	32851	735	2643	14434
194	0116	-0095	32941	723	2651	14439
199	0123	-0095	32785	734	2638	14438

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0120 B	31574	868	2541	14389	0000	00000	2579
0010	-0133	3156 B	870	2540	14385	0026	00001	2585
0020	-0157	31728	879	2554	14377	0051	00005	2450
0030	-0164	3173 C	882	2554	14376	0076	00012	2449
0050	-0129	3189 H	863	2566	14398	0124	00031	2332
0075	-0089	3265 B	818	2626	14431	0176	00063	1760
0100	-0096	3294 H	722	2650	14436	0217	00100	1532

C-REF-NO 005	YR 1963	DEPTH 246	WAVES 1 3222	AIR T -05.0	VIS 5
CONS. NO 055	MONTH 9	MXSAMPD 02	WAVES 2 3223	WET B -05.5	STN
LAT 75-490N	DAY 25	NO.DPTH 9	WND-DIR 320	WW-CODE 01	
LON 87-230W	HR 21.1	W-COLOR	WND-SPD 16	CLD-TPE 3	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1008.1	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
211	0000	-016 B	31597	883	2544	14371
211	0010	-0150	31583	882	2542	14377
211	0019	-0153	31577	879	2542	14377
211	0029	-0146	31606	878	2544	14382
211	0048	-0075	32311	802	2599	14429
211	0072	-0094	32769	794 B	2637	14430
211	0096	-0095	33040	710	2659	14438
211	0144	-0090	33249	683	2675	14451
211	0191	-0088	33601	664	2704	14464

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0160 B	31597	883	2544	14371	0000	00000	2552
0010	-0150	31583	882	2542	14377	0026	00001	2564
0020	-0153	31574	879	2542	14377	0052	00005	2570
0030	-0142	3164 C	874	2546	14385	0077	00012	2523
0050	-0075	3236 B	801	2603	14430	0123	00030	1983
0075	-0095	32811	784 B	2640	14431	0168	00059	1631
0100	-0095	3306 C	704	2660	14439	0207	00093	1437
0125	-0092	3318 H	682 B	2670	14446	0242	00133	1344
0150	-0091	3338 I	653 D	2686	14453	0274	00178	1196
0175	-0090	3352 I	653 B	2697	14460	0302	00226	1085

C-REF-NO 005	YR 1963	DEPTH 480	WAVES 1 3421	AIR T -05.4	VIS 8
CONS. NO 056	MONTH 9	MXSAMPD 04	WAVES 2 3323	WET B -06.3	STN
LAT 76-000N	DAY 25	NO.DPTH 12	WND-DIR 340	WW-CODE 02	
LOX 87-150W	HR 23.8	W-COLOR 30	WND-SPD 14	CLD-TPE 2	
MARSD SQ 261	C/I 1810	W-TRNSP 09	BARO 1007.6	CLD-AMT 5	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
238	0000	-012 B	31579	870	2541	14389
238	0010	-0124	31536	868	2538	14389
238	0020	-0125	31534	863	2538	14390
238	0029	-0047	32100	812	2581	14436
238	0049	-0066	32419	786	2607	14435
238	0073	-0090	32682	765	2629	14431
238	0098	-0098	32867	737	2645	14434
238	0147	-0092	33176	694	2669	14449
238	0196	-0081	33548	658	2699	14468
238	0294	-0057	34103	595	2743	14503
238	0393	-0028	34284	571	2756	14535
238	0442	-0022	34333	403 B	2760	14547

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0120 B	31579	870	2541	14389	0000	00000	2575
0010	-0124	31536	868	2538	14389	0026	00001	2606
0020	-0125	31534	863	2538	14390	0052	00005	2606
0030	-0045	3213 C	809	2584	14437	0076	00011	2171
0050	-0067	32432	785	2609	14434	0118	00028	1932
0075	-0091	32699	763	2631	14431	0164	00057	1718
0100	-0098	32880	735	2646	14434	0205	00094	1576
0125	-0097	3304 B	712	2658	14441	0243	00138	1454
0150	-0091	33199	692	2671	14450	0278	00187	1331
0175	-0086	3339 B	673	2686	14460	0310	00240	1187
0200	-0080	33577	655	2701	14469	0338	00294	1045
0225	-0074	3375 B	637	2715	14478	0363	00348	0918
*0250	-0068	3389 B	620	2726	14487	0365	00401	0807
0300	-0055	34121	599	2744	14505	0421	00503	0638
0400	-0029	3432 E	510 E	2759	14536	0478	00705	0499

C-REF-NO 005	YR 1963	DEPTH 507	WAVES 1 3620	AIR T -04.5	VIS 8
CONS. NO 057	MONTH 9	MXSAMPD 04	WAVES 2 3122	WET B -05.6	STN
LAT 76-100N	DAY 26	NO.DPTH 13	WND-DIR 010	WW-CODE C1	
LON 87-080W	HR 02.7	W-COLOR	WND-SPD 04	CLD-TPE 2	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1007.0	CLD-AMT 5	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
027	0000	-016 B	31712	877	2553	14372
027	0010	-0165	31697	879	2552	14371
027	0019	-0168	31693	892	2551	14371
027	0029	-0159	31747	879	2556	14378
027	0048	-0080	32458	781	2611	14428
027	0072	-0092	32724	760	2633	14431
027	0096	-0096	32946	728	2651	14436
027	0146	-0085	33360	684	2684	14455
027	0193	-0082	33658	659	2708	14468
027	0241	-0060	34071	620	2741	14492
027	0290	-0047	34170	588	2748	14508
027	0389	-0028	34291	572	2757	14535
027	0439	-0024	34327	569	2760	14545

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0160 B	31712	877	2553	14372	0000	00000	2464
0010	-0165	31697	879	2552	14371	0025	00001	2474
0020	-0168	31692	892	2551	14372	0050	00005	2476
0030	-0155	3178 D	874	2558	14381	0074	00011	2410
0050	-0079	3249 C	777	2614	14430	0118	00029	1880
0075	-0093	32753	756	2635	14431	0162	00057	1676
0100	-0095	32982	724	2654	14437	0202	00093	1498
0125	-0091	33196	700	2671	14446	0238	00133	1335
0150	-0085	33385	682	2686	14456	0270	00178	1191
0175	-0084	3354 C	668	2699	14463	0298	00226	1070
0200	-0079	3373 C	654	2713	14472	0323	00274	0932
0225	-0068	3395 E	633	2731	14484	0345	00320	0768
0250	-0057	3410 C	613	2743	14495	0363	00364	0652
0300	-0045	34186	585	2749	14511	0394	00452	0593
0400	-0027	34304	567	2758	14537	0450	00651	0511

C-REF-NO 005	YR 1963	DEPTH 103	WAVES 1 3121	AIR T -07.0	VIS 8
CONS. NO 058	MONTH 9	MXSAMPD 01	WAVES 2 27X1	WET B -07.6	STN
LAT 76-180N	DAY 26	NO.DPTH 6	WND-DIR 310	WW-CODE 02	
LON 87-120W	HR 11.5	W-COLOR	WND-SPD 08	CLD-TPE 6	
MARSD SQ 261	C/I 1810	W-TRNSP 08	BARO 1008.3	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
115	0000	-013 B	31406	866	2527	14382
115	0010	-0134	31404	860	2527	14382
115	0020	-0060	31725	834	2551	14423
115	0030	-0044	32559	818	2618	14444
115	0050	-0076	32803	773	2639	14435
115	0075	-0087	32798	738	2639	14434

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0130 B	31406	866	2527	14382	0000	00000	2705
0010	-0134	31404	860	2527	14382	0027	00001	2705
0020	-0060	31725	834	2551	14423	0053	00005	2478
0030	-0044	32559	818	2618	14444	0075	00011	1844
0050	-0076	32803	773	2639	14435	0110	00025	1645
0075	-0087	32798	738	2639	14434	0152	00052	1643

C-REF-NO 005	YR 1963	DEPTH 139	WAVES 1 3121	AIR T -11.0	VIS 8
CONS. NO 059	MONTH 9	MXSAMPD 01	WAVES 2 XX	WET B -11.2	STN
LAT 76-190N	DAY 26	NO.DPTH 7	WND-DIR 310	WW-CODE 15	
LON 88-520W	HR 15.2	W-COLOR	WND-SPD 09	CLD-TPE 3	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1010.4	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
152	0000	-015 B	31556	850	2540	14375
152	0008	-0147	31589	845	2543	14378
152	0017	-0140	31766	828	2557	14385
152	0025	-0141	32021	794	2577	14390
152	0043	-0119	32346	765	2603	14408
152	0064	-0096	32980	722	2654	14431
152	0085	-0084	33303	567 B	2679	14445

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0150 B	31556	850	2540	14375	0000	00000	2586
0010	-0145	31617	843	2545	14380	0026	00001	2539
0020	-0140	3186 B	816	2564	14387	0050	00005	2352
0030	-0136	3212 F	783	2585	14394	0073	00011	2154
0050	-0111	3256 G	757	2620	14416	0113	00027	1820
0075	-0089	3311 I	641 B	2664	14438	0154	00052	1405

C-REF-NO 005	YR 1963	DEPTH 173	WAVES 1 3521	AIR T -09.5	VIS 7
CONS. NO 060	MONTH 9	MXSAMPD 01	WAVES 2 35X2	WET B -09.6	STN
LAT 76-230N	DAY 26	NO.DPTH 8	WND-DIR 350	WW-CODE 15	
LON 88-400W	HR 17.0	W-COLOR	WND-SPD 08	CLD-TPE 7	
MARSD SQ 261	C/I 1810	W-TRNSP	BARO 1009.6	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
170	0000	-014 B	31669	863	2549	14381
170	0010	-0148	31648	864	2547	14379
170	0020	-0144	31807	847	2560	14385
170	0030	-0136	32200	822	2592	14396
170	0050	-0118	32477	777	2614	14411
170	0075	-0086	33135	724	2666	14440
170	0100	-0078	33347	695	2683	14450
170	0125	-0076	33406	680	2687	14456

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0140 B	31669	863	2549	14381	0000	00000	2501
0010	-0148	31648	864	2547	14379	0025	00001	2515
0020	-0144	31807	847	2560	14385	0050	00005	2392
0030	-0136	32200	822	2592	14396	0072	00011	2091
0050	-0118	32477	777	2614	14411	0112	00027	1881
0075	-0086	33135	724	2666	14440	0154	00053	1386
0100	-0078	33347	695	2683	14450	0186	00082	1225
0125	-0076	33406	680	2687	14456	0217	00117	1180

C-REF-NO 005	YR 1963	DEPTH	96	WAVES 1 3421	AIR T -09.5	VIS 7
CONS. NO 061	MONTH 9	MXSAMPD	01	WAVES 2 34X2	WET B -09.6	STN
LAT 76-085N	DAY 26	NO.DPTH	6	WND-DIR 340	WW-CODE 15	
LON 88-380W	HR 18.8	W-COLOR	50	WND-SPD 08	CLD-TPE 7	
MARSD SQ 261	C/I 1810	W-TRNSP	15	BARO 1009.6	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
188	0000	-015 B	31695	834	2551	14377
188	0010	-0152	31708	784 B	2552	14378
188	0020	-0152	31702	828	2552	14379
188	0030	-0139	31903	814	2568	14390
188	0050	-0114	32499	757	2615	14413
188	0075	-0096	32867	728	2645	14431

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0150 B	31695	834	2551	14377	0000	00000	2479
0010	-0152	31708	784 B	2552	14378	0025	00001	2468
0020	-0152	31702	828	2552	14379	0050	00005	2471
0030	-0139	31903	814	2568	14390	0074	00011	2319
0050	-0114	32499	757	2615	14413	0116	00028	1866
0075	-0096	32867	728	2645	14431	0159	00055	1588

C-REF-NO 005	YR 1963	DEPTH 529	WAVES 1 0420	AIR T -05.0	VIS 7
CONS. NO 062	MONTH 9	MXSAMPD 05	WAVES 2 3521	WET B -05.1	STN
LAT 75-444N	DAY 27	NO.DPTH 13	WND-DIR 040	WW-CODE 71	
LON 79-260W	HR 19.2	W-COLOR 50	WND-SPD 04	CLD-TPE 4	
MARSD SQ 260	C/I 1810	W-TRNSP 16	BARO 1006.0	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
192	0000	-011 B	32076	847	2581	14401
192	0010	-0113	32076	851	2581	14401
192	0020	-0115	32065	857	2580	14402
192	0030	-0114	32066	851	2580	14404
192	0050	-0086	32230	835	2593	14423
192	0075	-0087	32960	744	2652	14437
192	0100	-0091	33377	695	2686	14445
192	0150	-0098	33645	688	2708	14454
192	0200	-0098	33894	650	2728	14465
192	0249	-0077	34026	621	2738	14485
192	0298	-0061	34105	609	2743	14502
192	0397	-0026	34279	588	2756	14537
192	0496	-0010	34361	566	2762	14562

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0110 B	32076	847	2581	14401	0000	00000	2195
0010	-0113	32076	851	2581	14401	0022	00001	2194
0020	-0115	32065	857	2580	14402	0044	00005	2201
0030	-0114	32066	851	2580	14404	0066	00010	2200
0050	-0086	32230	835	2593	14423	0109	00028	2081
0075	-0087	32960	744	2652	14437	0155	00056	1519
0100	-0091	33377	695	2686	14445	0189	00086	1198
0125	-0095	3356 I	686 B	2701	14450	0217	00119	1056
0150	-0098	33645	688	2708	14454	0243	00155	0988
0175	-0100	3378 B	670	2718	14459	0267	00194	0884
0200	-0098	33894	650	2728	14465	0288	00235	0795
0225	-0088	33972	634	2734	14475	0307	00277	0739
0250	-0077	34028	621	2738	14485	0325	00321	0700
0300	-0060	34109	609	2744	14502	0359	00417	0644
0400	-0029	3427 D	587	2755	14536	0419	00629	0539
0500	-0009	34364	565	2762	14563	0470	00864	0475

C-REF-NO 005	YR 1963	DEPTH 570	WAVES 1 00X0	AIR T -04.9	VIS 7
CONS. NO 063	MONTH 9	MXSAMPC 05	WAVES 2 XX	WET B -05.5	STN
LAT 75-407N	DAY 28	NO.DPTH 13	WND-DIR 130	WW-CODE 02	
LON 79-450W	HR 02.5	W-COLOR	WND-SPD 04	CLD-TPE 7	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 1005.4	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
025	0000	-014 B	31466	877	2533	14378
025	0009	-0147	31449	852	2531	14376
025	0018	-0133	31844	848	2563	14390
025	0026	-0115	32059	843	2580	14403
025	0044	-0088	32350	817	2603	14423
025	0066	-0080	32798	753	2639	14436
025	0088	-0084		714		
025	0132	-0089	33507	663	2696	14453
025	0176	-0086	33748	636	2715	14465
025	0221	-0092	33948	630	2732	14472
025	0266	-0061	34088	601	2742	14496
025	0360	-0025	34273	579	2755	14531
025	0456	-0014	34331	567	2759	14553

*WAVES NOT COMPATIBLE WITH WIND

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0140 B	31466	877	2533	14378	0000	00000	2657
0010	-0146	3149 C	851	2534	14377	0027	00001	2639
0020	-0129	31906	847	2568	14393	0052	00005	2319
0030	-0107	3213 C	839	2586	14408	0074	00011	2150
0050	-0084	3247 B	800	2612	14427	0115	00027	1895
0075	-0081	3294 D	735	2650	14439	0158	00054	1541
0100	-0086	3325 H	697	2675	14445	0194	00086	1298
0125	-0089	3346 C	669	2693	14451	0224	00121	1131
0150	-0088	3362 B	649	2705	14458	0251	00159	1011
0175	-0086	33744	636	2715	14465	0276	00199	0916
0200	-0091	33861	633	2725	14468	0298	00242	0823
0225	-0090	33962	628	2733	14474	0317	00285	0745
0250	-0074	34044	612	2739	14487	0335	00329	0690
0300	-0044	34171	589	2748	14511	0368	00420	0605
0400	-0015	34316	567	2758	14543	0424	00620	0509

C-REF-NO 005 YR 1963 DEPTH 557 WAVES 1 XX AIR T -04.8 VIS 8
 CONS. NO 064 MONTH 9 MXSAMPD 04 WAVES 2 XX WET 8 -05.8 STN
 LAT 75-380N DAY 28 NO.DPTH 12 WND-DIR 130 WW-CODE C2
 LON 79-400W HR 10.8 W-COLOR 30 WND-SPD 02 CLD-TPE 7
 MARSD SQ 260 C/I 1810 W-TRNSP 12 BARO 1005.3 CLD-AMT 1 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
108	0000	-013 B	31221	857	2512	14380
108	0009	-0132	31191	862	2510	14380
108	0018	-0136	31214	872	2512	14380
108	0026	-0088	31355	843	2522	14406
108	0044	-0094	31845	843	2562	14413
108	0066	-0033	32359	808	2601	14452
108	0087	-0085	32923	744	2649	14439
108	0131	-0088	33453	680	2692	14452
108	0174	-0087	33684	657	2710	14463
108	0262	-0054	34097	608	2742	14499
108	0349	-0026	34257	587	2754	14528
108	0436	-0016	34327	570	2759	14548

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0130 B	31221	857	2512	14380	0000	00000	2848
0010	-0134	31189	864	2510	14379	0029	00001	2871
0020	-0125	31242	866	2514	14386	0057	00006	2831
0030	-0085 B	3146 C	840	2530	14409	0085	00013	2676
0050	-0075 B	3199 B	837	2573	14424	0135	00033	2271
0075	-0051 B	3261 D	781	2622	14449	0186	00065	1802
0100	-0094 B	3314 G	718	2667	14440	0226	00100	1377
0125	-0092	3342 D	685	2689	14449	0258	00137	1167
0150	-0088	3357 D	667	2701	14457	0286	00176	1045
0175	-0087	33690	656	2711	14464	0311	00218	0757
0200	-0079	3382 B	641	2721	14473	0334	00262	0857
*0225	-0070	3394 B	627	2731	14483	0355	00306	0768
*0250	-0060	34050	614	2739	14494	0373	00351	0691
0300	-0040	3419 B	597	2749	14513	0406	00442	0594
0400	-0020	3433 C	574	2760	14541	0461	00638	0496

C-REF-NO 005	YR 1963	DEPTH 533	WAVES 1 00X0	AIR T -04.8	VIS 8
CONS. NO 065	MONTH 9	MXSAMPD 05	WAVES 2 XX	WET B -05.8	STN
LAT 75-335N	DAY 28	NO.DPTH 13	WND-DIR 130	WW-CODE 02	
LON 79-500W	HR 12.9	W-COLOR	WND-SPD 02	CLD-TPE 7	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 1005.3	CLD-AMT 1	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
129	0000	-015 B	31220		2513	14370
129	0010	-0150	31190		2510	14371
129	0020	-0151	31206		2512	14373
129	0030	-0145	31217		2512	14378
129	0050	-0078	31452		2530	14416
129	0075	-0043	32290		2596	14448
129	0100	-0083	32805		2639	14440
129	0150	-0089	33415		2689	14454
129	0200	-0084	33770		2717	14470
129	0250	-0061	34065		2740	14493
129	0300	-0036	34207		2750	14515
129	0400	-0022	34300		2757	14539
129	0500	-0012	34358		2762	14561

*WAVES NOT COMPATIBLE WITH WIND

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0150 B	31220		2513	14370	0000	00000	2845
0010	-0150	31190		2510	14371	0029	00001	2867
0020	-0151	31206		2512	14373	0057	00006	2853
0030	-0145	31217		2512	14378	0086	00013	2845
0050	-0078	31452		2530	14416	0142	00036	2680
0075	-0043	32290		2596	14448	0201	00073	2048
0100	-0083	32805		2639	14440	0248	00114	1638
0125	-0093 B	3316 D		2668	14445	0285	00157	1361
0150	-0089	33415		2689	14454	0317	00202	1167
0175	-0088	3361 C		2705	14462	0345	00247	1015
0200	-0084	33770		2717	14470	0369	00294	0896
0225	-0074	3393 B		2730	14481	0390	00339	0776
0250	-0061	34065		2740	14493	0408	00384	0679
0300	-0036	34207		2750	14515	0440	00473	0582
0400	-0022	34300		2757	14539	0496	00671	0517
0500	-0012	34358		2762	14561	0546	00902	0477

C-REF-NO C05	YR 1963	DEPTH 224	WAVES 1 00X0	AIR T -08.0	VIS 8
CONS. NO C66	MONTH 9	MXSAMPD C2	WAVES 2 XX	WET B -08.6	STN
LAT 77-200N	DAY 29	NO.DPTH 9	WND-DIR 330	WW-CODE 02	
LON 77-500W	HR 15.2	W-COLOR	WND-SPD 02	CLD-TPE 3	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 1011.0	CLD-AMT 2	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
152	0000	-016 B	31245	863	2515	14366
152	0010	-0162	31280	878	2518	14367
152	0020	-0163	31363	873	2525	14369
152	0030	-0162	31658	863	2549	14376
152	0050	-0136	32096	844	2583	14397
152	0075	-0100	32537	824	2618	14425
152	0100	-0084	32757	808	2635	14439
152	0150	-0089	33439	751	2691	14455
152	0200	-0108	33693	713	2712	14458

*WAVES NOT COMPATIBLE WITH WIND

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0160 B	31245	863	2515	14366	0000	00000	2824
0010	-0162	31280	878	2518	14367	0028	00001	2795
0020	-0163	31363	873	2525	14369	0056	00006	2730
0030	-0162	31658	863	2549	14376	0082	00012	2502
0050	-0136	32096	844	2583	14397	0129	00031	2169
0075	-0100	32537	824	2618	14425	0180	00063	1839
0100	-0084	32757	808	2635	14439	0224	00103	1674
0125	-0083	3311 I	780	2663	14449	0263	00147	1408
0150	-0089	33439	751	2691	14455	0295	00192	1149
0175	-0092	3353 I	736	2698	14459	0323	00239	1080
0200	-0108	33693	713	2712	14458	0349	00288	0945

C-REF-NO 005	YR 1963	DEPTH 487	WAVES 1 00X0	AIR T -06.5	VIS 8
CONS. NO 067	MONTH 9	MXSAMPD 05	WAVES 2 XX	WET B -07.1	STN
LAT 77-150N	DAY 29	NO.DPTH 13	WND-DIR 030	WW-CODE 03	
LON 76-300W	HR 18.7	W-COLOR	WND-SPD 03	CLD-TPE 3	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 1011.0	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
187	0000	-014 B	31555	856	2540	14380
187	0010	-0156	31528	861	2538	14373
187	0020	-0134	31917	856	2569	14391
187	0030	-0144	32057	850	2580	14390
187	0050	-0086	32413	822	2608	14425
187	0075	-0087	33008	801	2656	14437
187	0100	-0090	33344	713	2683	14445
187	0149	-0107	33787	756	2719	14451
187	0198	-0067	34128	680	2745	14483
187	0247	-0054 D	34255	681	2755	14499
187	0296	-0050	34283	685	2757	14509
187	0395	-0040	34371	686	2764	14531
187	0455	-0036	34415	680	2767	14544

#WAVES NOT COMPATIBLE WITH WIND

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SWA
0000	-0140 B	31555	856	2540	14380	0000	00000	2589
0010	-0156	31528	861	2538	14373	0026	00001	2605
0020	-0134	31917	856	2569	14391	0051	00005	2310
0030	-0144	32057	850	2580	14390	0074	00011	2199
0050	-0086	32413	822	2608	14425	0115	00028	1940
0075	-0087	33008	801	2656	14437	0158	00055	1483
0100	-0090	33344	713	2683	14445	0192	00085	1223
0125	-0101	3359 C	725 C	2704	14447	0221	00117	1027
0150	-0106	33796	755	2720	14452	0245	00151	0870
0175	-0088	3399 B	718 B	2735	14467	0265	00184	0729
0200	-0066	34136	679	2746	14484	0282	00217	0624
0225	-0058 C	3422 B	676	2752	14493	0297	00249	0565
0250	-0054 D	34258	681	2755	14499	0311	00283	0536
0300	-0050	34286	685	2757	14510	0337	00358	0515
0400	-0040	3437 B	685	2764	14532	0386	00533	0455

C-REF-NO 005	YR 1963	DEPTH 657	WAVES 1 3620	AIR T -06.5	VIS 8
CONS. NO 068	MONTH 9	MXSAMPD 06	WAVES 2 XX	WET B -06.9	STN
LAT 77-28CN	DAY 29	NO.DPTH 13	WND-DIR 36C	WW-CODE C2	
LON 75-250W	HR 22.9	W-COLOR	WND-SPD 14	CLD-TPE 3	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 1009.7	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
229	0000	-016 B	30837	901	2482	14360
229	0009	-0168	30825	898	2481	14358
229	0019	-0142 B	30858	892	2483	14372
229	0028	-0164	31013	898	2496	14365
229	0047	-0152	31714	850	2553	14384
229	0070	-0118	32453	822	2612	14414
229	0094	-0092	32975	797	2653	14438
229	0141	-0112	33617	734	2706	14445
229	0187	-0130	33819	688	2723	14447
229	0282	-0060	34072	637	2741	14499
229	0377	-0044	34270	656	2756	14525
229	0473	-0037	34406	684	2767	14546
229	0570	-0030	34440	688	2769	14566

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0160 B	30837	901	2482	14360	0000	00000	3138
0010	-0165	30824	897	2481	14359	0032	00002	3146
0020	-0144 B	30869	893	2484	14372	0063	00006	3114
0030	-0165	3108 C	894	2501	14366	0094	00014	2949
0050	-0148	31820	845	2561	14388	0147	00036	2378
0075	-0111	32578	817	2622	14420	0200	00068	1805
0100	-0092	33083	789	2662	14440	0240	00104	1422
0125	-0100	33451	756	2692	14446	0273	00141	1136
0150	-0117	3368 C	724	2711	14445	0299	00178	0958
0175	-0127	3379 D	699	2720	14446	0322	00216	0866
0200	-0123 B	33862	677	2726	14453	0343	00257	0810
0225	-0107 C	3394 B	660	2731	14466	0363	00300	0758
*0250	-0089 C	3400 B	647	2736	14479	0382	00345	0715
0300	-0055	34114	638	2744	14505	0416	00441	0643
0400	-0042	34310	663	2759	14530	0473	00645	0498
0500	-0033	34419	682	2767	14552	0520	00857	0418

C-REF-NO 005	YR 1963	DEPTH	579	WAVES 1	XX	AIR T -06.2	VIS 8
CONS. NO 069	MONTH 9	MXSAMPD	05	WAVES 2	XX	WET B -06.6	STN
LAT 77-100N	DAY 30	NO.DPTH	13	WND-DIR	360	WW-CODE 02	
LON 75-030W	HR 04.3	W-COLOR		WND-SPD	22	CLD-TPE 3	
MARSD SQ 260	C/I 1810	W-TRNSP		BARO	1006.9	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
043	0000	-016 B	31025	950	2497	14363
043	0009	-0163	31035	892	2498	14363
043	0019	-0166	31032	893	2498	14363
043	0028	-0142	31180	885	2509	14378
043	0046	-0142	32057	825	2580	14393
043	0068	-0107	32681	776	2630	14422
043	0091	-0098	33232	773	2674	14438
043	0138	-0118	33734	722	2715	14443
043	0185	-0122	33856	687	2725	14451
043	0232	-0092 B	33983	680	2735	14475
043	0280	-0069	34130	694 B	2746	14495
043	0377	-0046	34336	688 B	2761	14525
043	0475	-0035	34435	709 B	2769	14548

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SWA
0000	-0160 B	31025	950	2497	14363	0000	00000	2987
0010	-0164	31031	891	2498	14363	0030	00002	2987
0020	-0164	31040	893	2499	14365	0060	00006	2979
0030	-0141	3127 F	879	2516	14380	0089	00014	2908
0050	-0136	3219 C	813	2591	14399	0138	00033	2095
0075	-0102	32865	773	2645	14428	0185	00062	1587
0100	-0100	3338 D	765	2686	14440	0220	00093	1196
0125	-0111	3366 E	738	2709	14444	0247	00124	0976
0150	-0121	3378 D	711	2720	14444	0271	00157	0874
0175	-0123	3385 D	693	2725	14449	0292	00192	0824
0200	-0114	33895	682	2728	14458	0312	00231	0788
0225	-0097 B	33963	680	2733	14471	0332	00274	0742
0250	-0082	34039	685	2739	14483	0350	00317	0689
0300	-0062	34182	694 B	2750	14502	0382	00408	0588
0400	-0039	34371	701 B	2764	14532	0434	00593	0492

C-REF-NO 005	YR 1963	DEPTH 438	WAVES 1 1422	AIR T -00.2	VIS 7
CONS. NO 070	MONTH 9	MXSAMPD 04	WAVES 2 3434	WET 8 -00.2	STN
LAT 77-060N	DAY 30	NO.DPTH 12	WND-DIR 140	WW-CODE 02	
LON 73-300W	HR 14.2	W-COLOR	WND-SPD 08	CLD-TPE 3	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 1009.5	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
142	0000	-005 B	32236	843	2592	14431
142	0010	-0050	32134	855	2584	14432
142	0020	-0004	33101	801	2660	14468
142	0030	-0028	33297	781	2677	14461
142	0050	-0096	33545	773	2699	14437
142	0075	-0116	33691	730	2712	14433
142	0100	-0134		724		
142	0150	-0098	33890	673	2727	14457
142	0200	-0038	34112	609	2743	14496
142	0250	-0016	34240	609	2752	14516
142	0300	-0016	34328	622	2759	14526
142	0400	-0029	34442	622	2769	14538

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0050 B	32236	843	2592	14431	0000	00000	2091
0010	-0050	32134	855	2584	14432	0021	00001	2169
0020	-0004	33101	801	2660	14468	0040	00004	1447
0030	-0028	33297	781	2677	14461	0053	00007	1286
0050	-0096	33545	773	2699	14437	0077	00017	1070
0075	-0116	33691	730	2712	14433	0103	00033	0950
0100	-0134	3377 F	724	2719	14430	0126	00054	0884
0125	-0124	3384 F	703	2724	14440	0147	00078	0835
0150	-0098	33890	673	2727	14457	0168	00108	0801
0175	-0067	3400 B	638	2735	14477	0187	00140	0726
0200	-0038	34112	609	2743	14496	0205	00173	0655
0225	-0023	34184	604	2748	14508	0221	00208	0607
0250	-0016	34240	609	2752	14516	0235	00244	0568
0300	-0016	34328	622	2759	14526	0262	00320	0501
0400	-0029	34442	622	2769	14538	0308	00482	0406

C-REF-NO 005 YR 1963 DEPTH 1087 WAVES 1 0920 AIR T -01.0 VIS 6
 CONS. NO 071 MONTH 9 MXSAMPD 03 WAVES 2 3423 WET B -0.0 STN
 LAT 77-000N DAY 30 NO.DPTH 11 WND-DIR C90 WW-CODE 71
 LON 72-000W HR 17.2 W-COLOR WND-SPD 02 CLD-TPE 4
 MARSD SQ 260 C/I 1810 W-TRNSP BARO 1011.8 CLD-AMT 8 Hw

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
179	0000	-006 B	31941	855	2569	14423
179	0010	-0022	32531	843	2615	14450
179	0020	-0037	33249	820	2673	14455
179	0030	-0108	33613	779	2705	14429
179	0050	-0130	33761	731	2718	14424
179	0075	-0152	33758	730	2718	14417
179	0100	-0151	33793	723	2721	14422
179	0150	-0106	33886	665	2727	14453
179	0200	-0071	33965	639	2732	14479
179	0250	0008	34099	578	2740	14525
172	0293	0043	34207	563	2746	14550

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0060 B	31941	855	2569	14423	0000	00000	2314
0010	-0022	32531	843	2615	14450	0021	00001	1875
0020	-0037	33249	820	2673	14455	0037	00003	1320
0030	-0108	33613	779	2705	14429	0049	00006	0893
0050	-0130	33761	731	2718	14424	0068	00014	0893
0075	-0152	33758	730	2718	14417	0091	00028	0888
0100	-0151	33793	723	2721	14422	0113	00048	0860
0125	-0131	33838	696	2724	14436	0134	00073	0829
0150	-0106	33886	665	2727	14453	0154	00102	0801
0175	-0091	33923	652	2730	14465	0174	00135	0777
0200	-0071	33965	639	2732	14479	0194	00172	0752
0225	-0032	34029	608	2736	14502	0212	00213	0721
0250	0008	34099	578	2740	14525	0230	00256	0688

C-REF-NO 005	YR 1963	DEPTH	96	WAVES 1 3120	AIR T -00.5	VIS 8
CONS. NO 072	MONTH 10	MXSAMPD	01	WAVES 2 2733	WET B -02.0	STN
LAT 76-320N	DAY 02	NO.DPTH	6	WNC-DIR 310	WW-CODE 02	
LON 70-290W	HR 12.8	W-COLOR		WND-SPD 03	CLD-TPE 3	
MARSD SQ 260	C/I 1810	W-TRNSP		BARO 979.0	CLD-AMT 1	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
128	0000	-009 B	31662		2547	14405
128	0010	-0051	31961		2570	14429
128	0019	-0034	32247		2592	14442
128	0029	-0020	32444		2608	14453
128	0048	-0027	32973		2651	14460
128	0071	-0067	33242		2674	14449

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0090 B	31662		2547	14405	0000	00000	2519
0010	-0051	31961		2570	14429	0024	00001	2301
0020	-0032	32268		2594	14443	0046	00005	2072
0030	-0020	3247 B		2610	14454	0066	00010	1920
0050	-0026	3293 I		2647	14461	0101	00024	1569

C-REF-NO 005	YR 1963	DEPTH 392	WAVES 1 3422	AIR T -00.6	VIS 5
CONS. NO 073	MONTH 10	MXSAMPD 03	WAVES 2 3434	WET B -01.6	STN
LAT 76-320N	DAY 02	NO.DPTH 12	WND-DIR 340	WW-CODE C2	
LON 71-000W	HR 14.2	W-COLOR	WND-SPD 18	CLD-TPE 3	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 977.7	CLD-AMT 1	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
142	0000	-008 B	31975		2572	14414
142	0009	-0066	31973		2571	14422
142	0019	-0023	32585		2619	14452
142	0029	-0003	32875		2642	14467
142	0048	-0063	33314		2680	14448
142	0073	-0120	33666		2710	14431
142	0098	-0128	33748		2717	14432
142	0148	-0122	33797		2721	14444
142	0197	-0088	33906		2728	14470
142	0247	-0028	34024		2735	14507
142	0296	0020	34118		2741	14539
142	0345	0059	34203		2745	14566

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0080 B	31975		2572	14414	0000	00000	2281
0010	-0062	3203 E		2576	14425	0023	00001	2247
0020	-0020	3262 B		2622	14454	0043	00004	1806
0030	-0005	32902		2644	14467	0060	00009	1599
0050	-0069	33352		2683	14446	0089	00020	1227
0075	-0122	33678		2711	14431	0116	00037	0958
0100	-0128	33751		2717	14433	0140	00058	0899
0125	-0128	3378 C		2719	14437	0162	00084	0875
0150	-0121	33801		2721	14445	0184	00115	0860
0175	-0107	33853		2725	14457	0205	00150	0825
0200	-0085	33913		2729	14472	0226	00189	0786
0225	-0055	33973		2732	14490	0245	00231	0752
0250	-0025	34030		2736	14509	0264	00277	0723
0300	0024	34127		2741	14541	0299	00376	0675

C-REF-NO 005	YR 1963	DEPTH 538	WAVES 1 3423	AIR T -02.2	VIS 8
CONS. NO 074	MONTH 10	MXSAMPD 05	WAVES 2 3436	WET B -02.9	STN
LAT 76-270N	DAY 02	NO.DPTH 13	WND-DIR 340	WW-CODE 02	
LON 71-480W	HR 16.0	W-COLOR	WND-SPD 27	CLD-TPE 3	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 977.7	CLD-AMT 1	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
166	0000	001 B	33041		2654	14470
166	0010	-0008	33061		2657	14464
166	0020	-0009	33063		2657	14465
166	0029	-0006	33104		2660	14469
166	0049	-0143	33754		2718	14417
166	0073	-0142	33822		2723	14423
166	0098	-0130	33863		2726	14433
166	0147	-0058	33981		2733	14476
166	0196	0006	34151		2744	14516
160	0228	0001	34098		2740	14519
160	0275	0044	34266		2751	14548
160	0371	-0004	34360		2761	14544
160	0468	-0024 B	34442		2769	14552

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0010 B	33041		2654	14470	0000	00000	1500
0010	-0008	33061		2657	14464	0015	00001	1476
0020	-0009	33063		2657	14465	0030	00003	1474
0030	-0012	3313 D		2663	14466	0044	00007	1418
0050	-0145	3377 B		2719	14417	0068	00016	0886
0075	-0142	33826		2724	14423	0089	00030	0839
0100	-0128	33867		2726	14435	0110	00048	0810
0125	-0094	33922		2730	14455	0130	00071	0779
0150	-0053	33995		2734	14479	0149	00098	0739
0175	-0016	3409 E		2740	14502	0167	00128	0681
0200	0006	3414 B		2743	14517	0184	00161	0653
0225	0002	3410 B		2740	14518	0201	00197	0682
0250	0020 B	3416 E		2744	14532	0218	00238	0646
0300	0039 B	3431 D		2755	14551	0248	00323	0548
0400	0018 F	3443 I		2766	14560	0298	00499	0440

C-REF-NO 005	YR 1963	DEPTH 611	WAVES 1 3322	AIR T -02.1	VIS 7
CONS. NO 075	MONTH 10	MXSAMPD 05	WAVES 2 3438	WET B -02.9	STN
LAT 74-300N	DAY 03	NO.DPTH 14	WND-DIR 330	WW-CODE 02	
LON 75-000W	HR 12.6	W-COLOR	WND-SPD 19	CLD-TPE 4	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 991.9	CLD-APT 3	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
126	0000	-006 B	33237		2673	14441
126	0008	-0069	33219		2672	14438
126	0015	-0070	33219		2672	14438
126	0023	-0069	33219		2672	14440
126	0038	-0069	33222		2672	14443
126	0058	-0152	33685		2712	14414
126	0077	-0162	33766		2719	14413
126	0115	-0134	33863		2726	14434
126	0153	-0064	33980		2733	14475
130	0185	-0048	34032		2737	14488
130	0228	0008	34149		2744	14522
130	0315	0120	34377		2755	14591
130	0405	0144	34504		2764	14618
130	0473	0110	34503		2766	14614

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0060 B	33237		2673	14441	0000	00000	1321
0010	-0070	33218		2672	14438	0013	00001	1331
0020	-0069	33219		2672	14439	0027	00003	1330
0030	-0066	3320 D		2671	14443	0040	00006	1344
0050	-0118 B	3349 I		2696	14426	0065	00016	1104
0075	-0163	3377 B		2719	14412	0090	00032	0879
0100	-0151	3383 B		2724	14423	0111	00051	0832
0125	-0115	33896		2728	14445	0132	00075	0791
0150	-0069	33971		2733	14471	0151	00102	0750
0175	-0052	34016		2736	14484	0170	00133	0722
0200	-0031	34070		2739	14499	0188	00167	0691
0225	0003	34140		2743	14520	0205	00204	0655
0250	0041	34212		2747	14542	0221	00244	0621
0300	0104	34342		2754	14580	0251	00328	0565
0400	0145	34500		2763	14617	0303	00515	0478

C-REF-NO 005	YR 1963	DEPTH 593	WAVES 1 3123	AIR T -02.1	VIS 7
CONS. NO 076	MONTH 10	MXSAMPD 05	WAVES 2 3438	WET 8 -03.1	STN
LAT 74-300N	DAY 03	NO.DPTH 14	WND-DIR 310	WW-CODE 03	
LON 76-320W	HR 15.5	W-COLOR	WND-SPD 21	CLD-TPE 3	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 993.5	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	CXYGEN	SGMT	SOUND
155	0000	-008 B	33266		2676	14432
155	0009	-0082	33256		2676	14432
155	0019	-0083	33256		2676	14433
155	0028	-0082	33258		2676	14435
155	0047	-0083	33263		2676	14438
155	0070	-0164	33758		2719	14411
155	0094	-0157	33809		2723	14419
155	0141	-0132	33890		2728	14440
155	0188	-0051	34024		2736	14487
160	0228	0048	34190		2745	14541
160	0276	0084	34311		2752	14567
160	0371	0142	34462		2761	14611
160	0467	0101	34480		2765	14609
160	0525	0055	34472		2767	14598

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0080 B	33266		2676	14432	0000	00000	1291
0010	-0082	33256		2676	14432	0013	00001	1298
0020	-0083	33256		2676	14434	0026	00003	1297
0030	-0081	3325 B		2675	14436	0039	00006	1302
0050	-0094	3333 F		2682	14435	0065	00016	1239
0075	-0167	3379 D		2721	14411	0091	00033	0860
0100	-0156	33819		2723	14421	0113	00052	0839
0125	-0144	33861		2727	14431	0133	00076	0808
0150	-0120	33911		2730	14447	0153	00104	0776
0175	-0078	33981		2734	14472	0173	00136	0738
0200	-0019	34074		2739	14504	0191	00171	0693
0225	0041	34178		2744	14537	0207	00208	0648
0250	0070	34253		2748	14556	0223	00246	0609
0300	0104	34361		2755	14581	0253	00329	0550
0400	0137	34477		2762	14614	0305	00516	0490
0500	0081	34484		2766	14605	0352	00733	0444

C-REF-NO 005	YR 1963	DEPTH	456	WAVES 1 3222	AIR T -01.9	VIS 7
CONS. NO 077	MONTH 10	MXSAMPD	04	WAVES 2 0135	WET B -03.0	STN
LAT 74-300N	DAY 03	NO.DPTH	12	WND-DIR 320	WW-CODE 02	
LON 77-300W	HR 18.8	W-COLOR		WND-SPD 06	CLD-TPE 3	
MARSD SQ 260	C/I 1810	W-TRNSP		BARO 996.7	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
188	0000	-008 B	33312	796	2680	14432
188	0010	-0081	33258	803	2676	14433
188	0020	-0083	33274	803	2677	14434
188	0029	-0085	33304	796	2680	14435
188	0049	-0085	33346	796	2683	14439
188	0073	-0164	33746	715	2718	14411
188	0098	-0156	33810	707	2723	14420
188	0147	-0138	33908	660	2730	14438
188	0197	-0015	34085	571	2740	14506
188	0246	0020	34202	565	2747	14532
188	0295	0073	34333	565	2755	14566
188	0414	-0005	34405	611	2765	14551

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0080 B	33312	796	2680	14432	0000	00000	1256
0010	-0081	33258	803	2676	14433	0013	00001	1297
0020	-0083	33274	803	2677	14434	0026	00003	1283
0030	-0084	33303	796	2679	14435	0039	00006	1260
0050	-0088	3336 B	793	2684	14438	0064	00016	1212
0075	-0165	3376 B	713	2719	14411	0090	00033	0884
0100	-0156	33814	706	2723	14420	0112	00052	0842
0125	-0153 B	3386 B	686	2727	14427	0133	00076	0805
0150	-0131	33918	654	2731	14442	0152	00104	0767
0175	-0070 C	3401 B	608	2736	14476	0171	00135	0722
0200	-0012	34093	569	2740	14508	0189	00169	0683
0225	0009 B	34154	562	2744	14523	0206	00206	0647
0250	0025	34214	565	2748	14535	0221	00245	0611
0300	0055 D	3432 E	567	2755	14558	0251	00327	0548
0400	0010	34405	603	2764	14556	0301	00507	0457

C-REF-NO 005	YR 1963	DEPTH 611	WAVES 1 2522	AIR T -01.9	VIS 7
CONS. NO 078	MONTH 10	MXSAMPD 06	WAVES 2 0234	WET B -03.1	STN
LAT 74-300N	DAY 03	NO.DPTH 14	WND-DIR 250	WW-CODE 02	
LON 78-400W	HR 21.5	W-COLOR	WND-SPD 16	CLD-TPE 3	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 997.6	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
215	0000	-003 B	33322		2679	14456
215	0010	-0028	33287		2676	14458
215	0019	-0032	33290		2676	14458
215	0029	-0030	33287		2676	14460
215	0048	-0036	33326		2679	14461
215	0072	-0159	33808		2723	14414
215	0096	-0158	33844		2726	14419
215	0143	-0117	33928		2731	14447
215	0191	-0148	34049		2742	14443
220	0247	0053	34217		2747	14547
220	0297	0106	34343		2754	14581
220	0397	0125	34475		2763	14608
220	0496	0066	34496		2768	14598
220	0571	-0002	34462		2769	14579

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0030 B	33322		2679	14456	0000	00000	1268
0010	-0028	33287		2676	14458	0013	00001	1295
0020	-0032	33289		2676	14458	0026	00003	1291
0030	-0029	33285		2676	14461	0039	00006	1295
0050	-0046	3337 D		2683	14457	0064	00016	1226
0075	-0163	3383 C		2724	14413	0090	00032	0834
0100	-0154	33850		2726	14422	0111	00051	0815
0125	-0132 B	33893		2729	14437	0131	00074	0788
0150	-0125 B	33944		2733	14445	0151	00102	0750
0175	-0144 C	34006		2738	14441	0169	00132	0695
0200	-0119 C	34076		2743	14458	0186	00165	0648
0225	-0032 E	34151		2746	14504	0202	00200	0628
0250	0058	34225		2747	14550	0218	00238	0622
0300	0108	34349		2754	14582	0248	00322	0562
0400	0124	34477		2763	14608	0300	00509	0479
0500	0069	34500		2768	14600	0346	00719	0423

C-REF-NO 005	YR 1963	DEPTH 666	WAVES 1 2622	AIR T -02.6	VIS 7
CONS. NO 079	MONTH 10	MXSAMPD 05	WAVES 2 22X2	WET B -03.4	STN
LAT 74-300N	DAY 04	NO.DPTH 14	WND-DIR 260	WW-CODE C2	
LON 79-190W	HR 00.5	W-COLOR	WND-SPD 21	CLD-TPE 6	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 998.6	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
005	0000	-006 B	32758		2635	14434
005	0008	-0063	32743		2633	14434
005	0016	-0049	32776		2636	14442
005	0025	0015	33042		2654	14477
005	0041	-0006	33134		2663	14471
005	0061	-0086	33199		2671	14438
005	0082	-0115	33461		2693	14432
005	0125	-0140	33764		2719	14431
005	0169	-0119				
005	0215	-0048	34019		2736	14493
008	0228	-0051	34033		2737	14494
008	0317	0092	34301		2751	14577
008	0410	0127	34449		2761	14610
008	0507	0091	34491		2766	14611

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0060 B	32758		2635	14434	0000	00000	1688
0010	-0062	3274 B		2633	14434	0017	00001	1700
0020	-0020 B	3289 E		2643	14458	0034	00003	1602
0030	0020 B	3310 E		2659	14481	0049	00007	1459
0050	-0041 B	3316 C		2666	14456	0078	00019	1388
0075	-0109	3337 C		2685	14432	0110	00040	1201
0100	-0131	3361 C		2706	14429	0138	00064	1003
0125	-0140	33764		2719	14431	0162	00092	0884
0150	-0134	33830		2724	14439	0184	00122	0834
0175	-0108	3390 B		2728	14457	0204	00156	0790
0200	-0067 B	3397 B		2732	14481	0223	00194	0753
0225	-0050	34030		2737	14494	0242	00234	0712
0250	-0009 C	3411 B		2741	14518	0259	00276	0674
0300	0066	34251		2749	14562	0292	00367	0608
0400	0128	34439		2760	14609	0348	00568	0511
0500	0098	34493		2766	14613	0397	00791	0450

C-REF-NO 005	YR 1963	DEPTH 740	WAVES 1 XX	AIR T -02.6	VIS 7
CONS. NO 080	MONTH 10	MXSAMPD 07	WAVES 2 XX	WET B -03.4	STN
LAT 74-260N	DAY 04	NO.DPTH 15	WND-DIR 260	WW-CODE 02	
LON 79-550W	HR 02.7	W-COLOR	WND-SPD 18	CLD-TPE 6	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 999.7	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
027	0000	-006 B	32787		2637	14434
027	0008	-0063	32783		2637	14434
027	0017	-0064	32779		2636	14435
027	0027	-0058	32806		2638	14440
027	0046	-0023	33233		2671	14465
027	0070	-0095	33473		2694	14439
027	0094	-0124	33670		2710	14432
027	0142	-0158	33837		2725	14427
027	0191	-0122	33953		2733	14453
027	0240	0006	34133		2742	14523
032	0278	0047	34205		2746	14549
032	0374	0086	34366		2757	14585
032	0471	0085	34448		2763	14602
032	0569	0071	34487		2767	14612
032	0668	-0004	34461		2769	14594

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0060 B	32787		2637	14434	0000	00000	1665
0010	-0064	32781		2637	14434	0017	00001	1668
0020	-0063	32778		2636	14436	0034	00003	1670
0030	-0051	3286 E		2643	14445	0050	00008	1608
0050	-0032 B	3329 B		2676	14463	0079	00019	1292
0075	-0103	33519		2698	14437	0109	00038	1086
0100	-0131	3370 B		2713	14431	0135	00061	0937
0125	-0152	3380 C		2722	14426	0157	00087	0854
0150	-0158	33856		2726	14428	0178	00116	0807
0175	-0143	3392 B		2731	14440	0198	00149	0765
0200	-0099 B	3399 B		2735	14466	0217	00185	0724
0225	-0034 B	3408 B		2740	14502	0235	00224	0682
0250	0020	34155		2744	14532	0251	00265	0653
0300	0062	34247		2749	14560	0283	00355	0608
0400	0088	34394		2759	14591	0340	00557	0516
0500	0085	34465		2765	14607	0389	00783	0461
0600	0046 B	34482		2768	14606	0434	01035	0421

C-REF-NO 005	YR 1963	DEPTH 209	WAVES 1 1620	AIR T -02.2	VIS 7
CONS. NO 081	MONTH 10	MXSAMPD 02	WAVES 2 13X1	WET B -03.0	STN
LAT 75-480N	DAY 04	NO.DPTH 9	WND-DIR 150	WW-CODE 02	
LON 77-370W	HR 22.6	W-COLOR	WND-SPD 04	CLD-TPE 3	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 999.6	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
226	0000	-016 B	32110	823	2585	14378
226	0010	-0164	32080	830	2583	14377
226	0020	-0147	32150	819	2588	14388
226	0030	-0124	32545	812	2619	14406
226	0050	-0107	32651	803	2628	14419
226	0075	-0094	33201	738	2672	14437
226	0100	-0108	33465	711	2693	14438
226	0150	-0116	33735	688	2715	14446
226	0190	-0119	33892	645	2728	14454

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0160 B	32110	823	2585	14378	0000	00000	2158
0010	-0164	32080	830	2583	14377	0022	00001	2179
0020	-0147	32150	819	2588	14388	0043	00004	2128
0030	-0124	32545	812	2619	14406	0063	00009	1829
0050	-0107	32651	803	2628	14419	0099	00024	1751
0075	-0094	33201	738	2672	14437	0138	00048	1333
0100	-0108	33465	711	2693	14438	0169	00076	1124
0125	-0114	3363 D	699	2707	14442	0196	00107	0997
0150	-0116	33735	688	2715	14446	0220	00140	0912
0175	-0120	3386 D	658	2726	14450	0242	00177	0814

C-REF-NO 005	YR 1963	DEPTH 328	WAVES 1 12X1	AIR T -02.1	VIS 8
CONS. NO 082	MONTH 10	MXSAMPD 03	WAVES 2 12X2	WET B -03.1	STN
LAT 76-000N	DAY 05	NO.DPTH 11	WND-DIR 120	WW-CODE 01	
LON 76-000W	HR 04.1	W-COLOR	WND-SPD 02	CLD-TPE 3	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 998.9	CLD-AMT 5	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
041	0000	-015 B	32145	830	2588	14383
041	0010	-0138	32262	817	2597	14392
041	0020	-0131	32357	808	2604	14398
041	0030	-0124	32435	808	2611	14405
041	0050	-0119	32650	812	2628	14413
041	0075	-0079	33012	760	2656	14441
041	0100	-0127	33718	723	2714	14433
041	0150	-0125	33876	660	2727	14444
041	0200	-0095	33992	571 B	2736	14468
041	0250	-0076	34081	626 B	2742	14486
041	0300	-0044	34239	599 B	2753	14512

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0150 B	32145	830	2588	14383	0000	00000	2133
0010	-0138	32262	817	2597	14392	0021	00001	2045
0020	-0131	32357	808	2604	14398	0041	00004	1972
0030	-0124	32435	808	2611	14405	0061	00009	1914
0050	-0119	32650	812	2628	14413	0098	00024	1748
0075	-0079	33012	760	2656	14441	0138	00050	1482
0100	-0127	33718	723	2714	14433	0169	00076	0924
0125	-0136 B	3390 I	692	2730	14435	0190	00101	0778
0150	-0125	33876	660	2727	14444	0210	00129	0802
0175	-0111	33938	608 B	2732	14456	0230	00162	0758
0200	-0095	33992	571 B	2736	14468	0248	00197	0722
0225	-0086	3403 B	595 B	2739	14477	0266	00236	0693
0250	-0076	34081	626 B	2742	14486	0283	00278	0660
0300	-0044	34239	599 B	2753	14512	0314	00364	0554

C-REF-NO 005	YR 1963	DEPTH 535	WAVES 1 1221	AIR T -01.7	VIS 8
CONS. NO 083	MONTH 10	MXSAMPD 05	WAVES 2 1333	WET B -02.4	STN
LAT 76-270N	DAY 05	NO.DPTH 13	WND-DIR 120	WW-CODE 71	
LON 71-430W	HR 20.5	W-COLOR	WND-SPD 16	CLD-TPE 7	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 998.3	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
205	0000	-007 B	33001		2655	14433
205	0010	-0084	32983		2654	14428
205	0020	-0085	32985		2654	14429
205	0030	-0089	33020		2657	14429
205	0050	-0158	33716		2715	14410
205	0075	-0160	33768		2719	14414
205	0100	-0140	33808		2722	14428
205	0149	-0059	33947		2730	14476
205	0198	0017	34098		2739	14521
205	0246	0050	34194		2745	14545
209	0292	0014	34231		2750	14537
209	0391	0017	34382		2762	14557
209	0489	-0017	34425		2767	14558

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0070 B	33001		2655	14433	0000	00000	1498
0010	-0084	32983		2654	14428	0015	00001	1506
0020	-0085	32985		2654	14429	0030	00003	1504
0030	-0089	33020		2657	14429	0045	00007	1475
0050	-0158	33716		2715	14410	0069	00016	0920
0075	-0160	33768		2719	14414	0092	00031	0878
0100	-0140	33808		2722	14428	0114	00050	0851
0125	-0102	33873		2726	14451	0135	00074	0813
0150	-0057	33950		2731	14477	0155	00103	0771
0175	-0016	34030		2735	14501	0174	00134	0730
0200	0020	34103		2739	14522	0192	00169	0692
0225	0043	34159		2743	14538	0209	00206	0663
0250	0048	34198		2745	14545	0225	00246	0636
0300	0013	34243		2751	14538	0256	00332	0581
0400	-0007 E	3436 G		2761	14547	0309	00523	0481

C-REF-NO 005	YR 1963	DEPTH 606	WAVES 1 1522	AIR T -01.8	VIS 6
CONS. NO 084	MONTH 10	MXSAMPD 05	WAVES 2 05X1	WET B -02.0	STN
LAT 76-220N	DAY 05	NO.DPTH 14	WND-DIR 150	WW-CODE 71	
LON 72-340W	HR 22.9	W-COLOR	WND-SPD 10	CLD-TPE 4	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 997.9	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
229	0000	-009 B	33260		2676	14427
229	0010	-0095	33265		2677	14426
229	0020	-0097	33266		2677	14427
229	0030	-0107	33449		2692	14427
229	0050	-0104	33570		2702	14433
229	0075	-0133	33842		2725	14427
229	0100	-0121	33930		2731	14439
229	0150	-0078	34127		2746	14470
229	0200	-0046	34244		2754	14494
229	0250	-0036	34350		2762	14509
234	0287	-0047	34390		2766	14510
234	0384	-0036	34513		2775	14533
234	0483	-0030	34575		2780	14553
234	0533	-0027	34588		2781	14563

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0090 B	33260		2676	14427	0000	00000	1293
0010	-0095	33265		2677	14426	0013	00001	1287
0020	-0097	33266		2677	14427	0026	00003	1285
0030	-0107	33449		2692	14427	0038	00006	1141
0050	-0104	33570		2702	14433	0060	00015	1048
0075	-0133	33842		2725	14428	0084	00030	0829
0100	-0121	33930		2731	14439	0104	00047	0764
0125	-0100	3403 B		2739	14454	0122	00069	0692
0150	-0078	34127		2746	14470	0139	00092	0628
0175	-0060	34191		2750	14483	0154	00117	0586
0200	-0046	34244		2754	14494	0169	00145	0551
0225	-0038	34301		2758	14503	0182	00174	0511
0250	-0036	34350		2762	14509	0194	00205	0474
0300	-0047	34408		2767	14513	0217	00268	0424
0400	-0035	34527		2776	14537	0256	00405	0338
0500	-0029	34582		2780	14557	0288	00552	0298

C-REF-NO 005	YR 1963	DEPTH 456	WAVES 1 1523	AIR T -02.0	VIS 6
CONS. NO 085	MONTH 10	MXSAMPD 04	WAVES 2 13X2	WET B -02.5	STN
LAT 76-12CN	DAY 06	NO.DPTH 11	WND-DIR 150	WW-CODE 71	
LON 74-C90W	HR 02.7	W-COLOR	WND-SPD 10	CLO-TPE 4	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 996.7	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
027	0000	-012 B	32669		2629	14405
027	0009	-0126	32670		2630	14403
027	0019	-0128	32678		2630	14404
027	0028	-0120	32769		2637	14411
027	0047	-0123	32853		2644	14414
027	0070	-0092	33437		2691	14440
027	0093	-0121	33778		2719	14435
027	0140	-0147	33921		2731	14433
027	0187	-0128	34014		2738	14451
027	0284	-0054	34297		2759	14505
027	0380	-0043	34474		2772	14529

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0120 B	32669		2629	14405	0000	00000	1737
0010	-0127	32668		2629	14403	0017	00001	1735
0020	-0127	32687		2631	14405	0035	00004	1720
0030	-0120	3277 C		2638	14411	0052	00008	1655
0050	-0118	3292 E		2650	14417	0084	00021	1541
0075	-0096	33529		2698	14440	0117	00041	1081
0100	-0128	3382 E		2723	14434	0141	00063	0843
0125	-0144	3392 H		2731	14432	0162	00086	0764
0150	-0145	33942		2733	14436	0181	00113	0745
0175	-0136	33991		2737	14445	0199	00143	0709
0200	-0118	3405 B		2741	14458	0216	00177	0668
0225	-0098 B	3412 C		2746	14473	0232	00212	0619
*0250	-0079 B	3420 C		2751	14487	0247	00249	0571
0300	-0064 D	3430 G		2759	14503	0274	00324	0498

C-REF-NO 005	YR 1963	DEPTH 290	WAVES 1 1122	AIR T -02.0	VIS 8
CONS. NO 086	MONTH 10	MXSAMPD 02	WAVES 2 09X2	WET B -02.9	STN
LAT 75-485N	DAY 06	NO.DPTH 10	WND-DIR 110	WW-CODE 70	
LON 67-040W	HR 14.4	W-COLOR	WND-SPD 10	CLD-TPE 6	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 998.1	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
144	0000	-005 B	31968		2570	14428
144	0009	-0056	31985		2572	14427
144	0018	-0034	32354		2601	14443
144	0027	-0018	32590		2619	14456
144	0045	-0022	33157		2665	14465
144	0068	-0074	33439		2690	14448
144	0092	-0098	33608		2705	14443
144	0140	-0126	33791		2720	14441
144	0188	-0120	33871		2727	14453
144	0248	-0094	33973		2734	14476

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0050 B	31968		2570	14428	0000	00000	2296
0010	-0054	3202 C		2575	14428	0023	00001	2254
0020	-0030	3241 B		2605	14447	0044	00004	1964
0030	-0016	3269 C		2627	14458	0063	00009	1755
0050	-0032	3324 D		2673	14462	0094	00021	1324
0075	-0083	33498		2695	14446	0125	00041	1110
0100	-0105	33649		2708	14442	0151	00064	0985
0125	-0121	3375 B		2717	14440	0175	00092	0900
0150	-0127	33812		2722	14442	0197	00123	0850
0175	-0124	33854		2725	14448	0218	00158	0817
0200	-0121	3391 D		2730	14455	0238	00196	0772
0225	-0110	3395 B		2733	14465	0257	00238	0747
*0250	-0092	33974		2734	14477	0276	00283	0734

C-REF-NO 005	YR 1963	DEPTH 319	WAVES 1 1122	AIR T -02.0	VIS 5
CONS. NO 087	MONTH 10	MXSAMPD 03	WAVES 2 09X2	WET B -02.9	STN
LAT 75-470N	DAY 06	NO.DPTH 10	WND-DIR 110	WW-CODE 70	
LON 67-360W	HR 15.7	W-COLOR	WND-SPD 10	CLD-TPE 6	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 998.1	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
157	0000	-005 B	31015		2494	14414
157	0009	-0023	32374		2602	14447
157	0018	-0010	32722		2630	14460
157	0027	-0001	32914		2645	14468
157	0044	-0054 B	33280		2676	14451
157	0066	-0082	33592		2703	14446
157	0088	-0108	33692		2712	14439
157	0133	-0135	33759		2718	14435
157	0178	-0096	33853		2724	14462
157	0257	-0038	33982		2732	14504

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0050 B	31015		2494	14414	0000	00000	3027
0010	-0021	3244 E		2607	14449	0025	00001	1944
0020	-0007	3277 B		2633	14462	0043	00004	1698
0030	-0008	32982		2650	14466	0060	00008	1535
0050	-0064 B	33385		2685	14449	0087	00019	1204
0075	-0093	3365 B		2708	14443	0115	00036	0990
0100	-0120	3372 B		2714	14436	0139	00058	0927
0125	-0134	3375 B		2717	14434	0162	00084	0894
0150	-0124	33794		2720	14443	0184	00116	0865
0175	-0100	33847		2724	14460	0206	00151	0832
0200	-0099 C	3388 B		2727	14465	0226	00191	0805
0225	-0077 B	3393 B		2729	14480	0246	00235	0779
*0250	-0048	33969		2732	14498	0266	00282	0758

C-REF-NO 005	YR 1963	DEPTH 319	WAVES 1 1321	AIR T -02.0	VIS 8
CONS. NO 088	MONTH 10	MXSAMPD 03	WAVES 2 1433	WET B -02.4	STN
LAT 75-350N	DAY 06	NO.DPTH 10	WND-DIR 130	WW-CODE 70	
LON 68-100W	HR 17.3	W-COLOR	WND-SPD 05	CLD-TPE 6	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 996.0	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
173	0000	-009 B	32800	815	2639	14421
173	0010	-0100	32595	815	2623	14415
173	0020	-0068 B	32804	815	2639	14434
173	0030	-0029	33157	810	2665	14459
173	0050	-0104	33598	666 B	2704	14434
173	0075	-0117	33699	674	2713	14433
173	0100	-0122	33756	674	2717	14436
173	0150	-0090	33883	620	2727	14461
173	0200	-0032	33988	571	2733	14497
173	0285	0025	34105	537	2739	14539

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0090 B	32800	815	2639	14421	0000	00000	1645
0010	-0100	32595	815	2623	14415	0017	00001	1799
0020	-0068 B	32804	815	2639	14434	0035	00004	1649
0030	-0029	33157	810	2665	14459	0050	00007	1393
0050	-0104	33598	666 B	2704	14434	0074	00017	1027
0075	-0117	33699	674	2713	14433	0099	00033	0944
0100	-0122	33756	674	2717	14436	0122	00054	0897
0125	-0111	33820	651	2722	14446	0144	00079	0851
0150	-0090	33883	620	2727	14461	0165	00108	0809
0175	-0061	33939	594	2730	14479	0185	00142	0777
0200	-0032	33988	571	2733	14497	0205	00179	0753
0225	-0022 B	34029	559	2735	14506	0223	00220	0726
0250	-0003 B	34065	547	2737	14520	0241	00264	0708

C-REF-NO 005	YR 1963	DEPTH 557	WAVES 1 1312	AIR T -02.0	VIS 8
CONS. NO 089	MONTH 10	MXSAMPD 05	WAVES 2 1433	WET B -02.4	STN
LAT 75-280N	DAY 06	NO.DPTH 13	WND-DIR 130	WW-CODE 70	
LON 68-440W	HR 19.0	W-COLOR	WND-SPD 05	CLD-TPE 6	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 996.0	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
190	0000	-012 B	33248		2676	14413
190	0010	-0126	33196		2672	14411
190	0020	-0126	33310		2681	14414
190	0030	-0165	33547		2702	14401
190	0050	-0168	33652		2710	14404
190	0075	-0165	33722		2716	14411
190	0100	-0164	33760		2719	14416
190	0150	-0153	33857		2726	14431
190	0200	-0038	34004		2734	14495
190	0250	0041	34162		2743	14541
190	0300	0088	34280		2750	14572
190	0400	0130	34464		2762	14610
190	0500	0086	34501		2767	14608

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0120 B	33248		2676	14413	0000	00000	1293
0010	-0126	33196		2672	14411	0013	00001	1330
0020	-0126	33310		2681	14414	0026	00003	1242
0030	-0165	33547		2702	14401	0038	00006	1049
0050	-0168	33652		2710	14404	0058	00014	0967
0075	-0165	33722		2716	14411	0082	00029	0912
0100	-0164	33760		2719	14416	0104	00049	0881
0125	-0166 B	33804		2722	14420	0126	00074	0846
0150	-0153	33857		2726	14431	0147	00104	0807
0175	-0100 B	33927		2730	14461	0167	00137	0771
0200	-0038	34004		2734	14495	0186	00173	0738
0225	0006	34085		2739	14520	0204	00213	0698
0250	0041	34162		2743	14541	0221	00255	0660
0300	0088	34280		2750	14572	0253	00344	0600
0400	0130	34464		2762	14610	0308	00540	0494
0500	0086	34501		2767	14608	0355	00756	0435

C-REF-NO 005	YR 1963	DEPTH 703	WAVES 1 1820	AIR T -01.5	VIS 8
CONS. NO 090	MONTH 10	MXSAMPD 07	WAVES 2 1732	WET 8 -03.0	STN
LAT 75-120N	DAY 06	NO.DPTH 15	WNC-DIR 180	WW-CODE 22	
LON 69-500W	HR 21.8	W-COLOR	WND-SPD 02	CLO-TPE 6	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 994.4	CLO-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
218	0000	-005 B	32830		2640	14440
218	0010	-0062	32805		2638	14435
218	0020	-0087	33098		2663	14430
218	0030	-0101	33158		2668	14425
218	0050	-0157	33601		2706	14409
218	0075	-0162	33719		2715	14412
218	0100	-0163	33743		2717	14416
218	0150	-0096	33873		2726	14458
218	0200	-0080	33981		2734	14475
218	0250	0026	34158		2743	14534
223	0298	0088	34295		2751	14572
223	0398	0146	34469		2761	14618
223	0498	0144	34519		2765	14634
223	0598	0096	34508		2767	14629
223	0673	0046	34489		2769	14618

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0050 B	32830		2640	14440	0000	00000	1636
0010	-0062	32805		2638	14435	0017	00001	1650
0020	-0087	33098		2663	14430	0032	00003	1417
0030	-0101	33158		2668	14425	0046	00007	1366
0050	-0157	33601		2706	14409	0070	00016	1008
0075	-0162	33719		2715	14412	0094	00032	0915
0100	-0163	33743		2717	14416	0117	00052	0895
0125	-0132 B	3380 B		2721	14436	0139	00078	0857
0150	-0096	33873		2726	14458	0160	00107	0814
0175	-0090 B	33924		2730	14465	0180	00141	0776
0200	-0080	33981		2734	14475	0199	00177	0736
0225	-0030 B	3407 B		2739	14503	0217	00217	0693
0250	0026	34158		2743	14534	0234	00258	0654
0300	0090	34300		2751	14574	0266	00346	0587
0400	0146	34469		2761	14618	0321	00542	0503
0500	0143	34519		2765	14634	0369	00767	0465
0600	0098	3451 B		2768	14630	0415	01024	0436

C-REF-NO 005	YR 1963	DEPTH 977	WAVES 1 2620	AIR T -02.9	VIS 9
CONS. NO 091	MONTH 10	MXSAMPD 08	WAVES 2 XX	WET B -03.9	STN
LAT 74-500N	DAY 07	NO.DPTH 14	WND-DIR 260	WW-CODE 01	
LON 71-200W	HR 01.6	W-COLOR	WND-SPD 03	CLO-TPE 3	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 992.0	CLO-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
016	0000	-004 B	32712	802	2630	14443
016	0010	-0045	32687	795	2628	14442
016	0020	-0044	32693	795	2629	14444
016	0030	-0046	32707	784	2630	14445
016	0050	-0050 B	33156	750	2666	14452
016	0075	-0117	33533	698	2699	14431
016	0100	-0163	33733	711	2717	14416
016	0150	-0165	33870	685	2728	14425
016	0200	-0084	33995	619	2735	14473
016	0300	0063	34290	549	2752	14561
019	0391	0104	34420	544	2760	14597
019	0489	0092	34467	537	2764	14608
019	0588	0113	34519	525	2767	14635
019	0784	0054	34501	486	2769	14641

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0040 B	32712	802	2630	14443	0000	00000	1730
0010	-0045	32687	795	2628	14442	0018	00001	1747
0020	-0044	32693	795	2629	14444	0035	00004	1742
0030	-0046	32707	784	2630	14445	0053	00008	1730
0050	-0050 B	33156	750	2666	14452	0084	00021	1384
0075	-0117	33533	698	2699	14431	0115	00040	1071
0100	-0163	33733	711	2717	14416	0140	00062	0902
0125	-0177	3382 E	705	2724	14415	0162	00087	0827
0150	-0165	33870	685	2728	14425	0182	00116	0794
0175	-0129	33932	653	2732	14447	0201	00148	0756
0200	-0084	33995	619	2735	14473	0220	00184	0724
0225	-0041	3407 B	594	2740	14498	0238	00223	0683
0250	-0003 B	3415 C	575	2744	14521	0255	00264	0645
0300	0063	34290	549	2752	14561	0285	00350	0576
0400	0103	34426	543	2760	14598	0340	00544	0502
0500	0094	34474	536	2765	14611	0389	00769	0462
0600	0095 D	3451 C	523	2768	14628	0434	01025	0436
0700	0076 C	3452 B	505	2769	14637	0477	01314	0420
*0800	0049	34496	482	2769	14641	0519	01640	0414

C-REF-NO 005	YR 1963	DEPTH 913	WAVES 1 00X0	AIR T -02.0	VIS 7
CONS. NO 092	MONTH 10	MXSAMPD 08	WAVES 2 XX	WET B -02.6	STN
LAT 74-300N	DAY 07	NO.DPTH 16	WND-DIR CALM	WW-CODE 02	
LON 72-400W	HR 05.7	W-COLOR	WND-SPD 00	CLD-TPE 4	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 990.7	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
057	0000	-005 B	32939		2649	14441
057	0010	-0058	32941		2649	14439
057	0020	-0057	32956		2650	14442
057	0030	-0054	32979		2652	14445
057	0050	-0093	33376		2686	14436
057	0075	-0155	33804		2722	14417
057	0100	-0162	33856		2727	14418
057	0150	-0116	33956		2733	14449
057	0200	0010	34151		2744	14519
057	0248	0066	34276		2751	14554
057	0296	0081	34356		2756	14570
062	0400	0082	34440		2763	14588
062	0500	0088	34484		2766	14608
062	0600	0077	34509		2769	14620
062	0800	0041	34476		2768	14637
062	0850	0030	34470		2768	14640

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
0000	-0050 B	32939		2649	14441	0000	00000	1553
0010	-0058	32941		2649	14439	0016	00001	1548
0020	-0057	32956		2650	14442	0031	00003	1536
0030	-0054	32979		2652	14445	0047	00007	1519
0050	-0093	33376		2686	14436	0074	00018	1200
0075	-0155	33804		2722	14417	0100	00034	0852
0100	-0162	33856		2727	14418	0121	00053	0808
0125	-0149	3390 B		2730	14429	0141	00076	0777
0150	-0116	33956		2733	14449	0160	00103	0744
0175	-0054 B	3405 B		2739	14484	0178	00133	0695
0200	0010	34151		2744	14519	0195	00166	0650
0225	0046	34223		2748	14540	0211	00200	0616
0250	0067	34280		2751	14555	0226	00237	0586
0300	0081	34361		2757	14571	0254	00317	0535
0400	0082	34440		2763	14589	0305	00499	0477
0500	0088	34484		2766	14608	0352	00715	0449
0600	0077	34509		2769	14620	0396	00964	0424
0700	0061	3450 B		2769	14630	0439	01250	0421
0800	0041	34476		2768	14637	0482	01579	0423

C-REF-NO 005	YR 1963	DEPTH 740	WAVES 1 00XX	AIR T -02.0	VIS 7
CONS. NO 093	MONTH 10	MXSAMPD 07	WAVES 2 XX	WET B -02.6	STN
LAT 74-100N	DAY 07	NO.DPTH 15	WND-DIR 340	WW-CODE 73	
LON 74-000W	HR 09.6	W-COLOR	WND-SPD 01	CLD-TPE 4	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 990.5	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
096	0000	-009 B	32547	791	2619	14417
096	0010	-0077	32564	795	2620	14425
096	0020	-0048	32619	795	2623	14441
096	0030	-0030	32655	790	2625	14451
096	0050	-0003 B	32966	769	2649	14472
096	0075	-0034	33171	732	2667	14464
096	0100	-0104	33472	700	2694	14440
096	0150	-0148	33793	687	2721	14432
096	0200	-0127	33908	646	2730	14452
096	0248	-0049	34056	593	2739	14498
100	0280	-0016	34131	571	2743	14520
100	0373	0058	34322	550	2755	14572
100	0468	0129	34465	524	2762	14621
100	0565	0099	34486	526	2765	14624
100	0664	-0007	34444	601 B	2768	14592

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0090 B	32547	791	2619	14417	0000	00000	1839
0010	-0077	32564	795	2620	14425	0018	00001	1830
0020	-0048	32619	795	2623	14441	0037	00004	1797
0030	-0030	32655	790	2625	14451	0055	00008	1776
0050	-0003 B	32966	769	2649	14472	0088	00022	1550
0075	-0034	33171	732	2667	14464	0125	00045	1379
0100	-0104	33472	700	2694	14440	0157	00073	1120
0125	-0138	3367 C	691	2711	14431	0183	00103	0957
0150	-0148	33793	687	2721	14432	0206	00135	0858
0175	-0145	3386 D	669	2727	14438	0227	00170	0805
0200	-0127	33908	646	2730	14452	0246	00208	0774
0225	-0088 B	33985	618	2735	14475	0265	00250	0729
0250	-0047	34061	591	2739	14500	0283	00293	0689
0300	0001	34176	564	2746	14532	0316	00387	0626
0400	0083	34371	541	2757	14588	0375	00594	0530
0500	0129	34482	519	2763	14627	0426	00829	0482
0600	0075	3449 B	551	2767	14619	0472	01091	0437

C-REF-NO 005	YR 1963	DEPTH 886	WAVES 1 2721	AIR T -02.0	VIS 8
CONS. NO 094	MONTH 10	MXSAMPD 08	WAVES 2 27X1	WET B -02.6	STN
LAT 73-550N	DAY 07	NO.DPTH 15	WND-DIR 270	WW-CODE 71	
LON 75-100W	HR 13.3	W-COLOR	WND-SPD 01	CLD-TPE 6	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 990.5	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
133	0000	-009 B	32520		2616	14417
133	0010	-0064	32596		2622	14432
133	0020	-0038	32667		2626	14446
133	0030	-0030	32673		2627	14452
133	0050	-0015	32746		2632	14463
133	0075	-0044	33256		2674	14461
133	0100	-0109	33556		2701	14439
133	0150	-0140	33812		2722	14436
138	0196	-0126	33925		2731	14452
138	0245	-0053	34054		2739	14496
138	0294	-0010	34170		2746	14525
138	0393	0055	34358		2758	14574
138	0491	0068	34432		2763	14597
138	0590	0069	34470		2766	14615
138	0790	0021	34477		2769	14626

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0090 B	32520		2616	14417	0000	00000	1860
0010	-0064	32596		2622	14432	0018	00001	1810
0020	-0038	32667		2626	14446	0036	00004	1765
0030	-0030	32673		2627	14452	0054	00008	1763
0050	-0015	32746		2632	14463	0089	00023	1712
0075	-0044	33256		2674	14461	0127	00046	1309
0100	-0109	33556		2701	14439	0157	00073	1054
0125	-0136	3372 E		2715	14433	0182	00101	0918
0150	-0140	33812		2722	14436	0204	00132	0846
0175	-0138	3388 B		2728	14442	0225	00167	0793
0200	-0121	33936		2732	14455	0244	00204	0755
0225	-0085	34002		2736	14477	0263	00245	0718
0250	-0048	34066		2740	14499	0281	00288	0684
0300	-0005	34184		2747	14529	0313	00380	0616
0400	0057	34366		2758	14576	0370	00583	0516
0500	0069	34437		2763	14599	0420	00813	0471
0600	0067	34476		2767	14616	0466	01073	0441
0700	0050	34490		2769	14624	0510	01363	0419
*0800	0017	34474		2769	14626	0552	01685	0407

C-REF-NO 005	YR 1963	DEPTH 922	WAVES 1 2520	AIR T -03.3	VIS 7
CONS. NO 095	MONTH 10	MXSAMPD 06	WAVES 2 XX	WET B -03.5	STN
LAT 73-460N	DAY 07	NO.DPTH 15	WND-DIR 250	HW-CODE 71	
LON 75-450W	HR 15.5	W-COLOR	WND-SPD 10	CLD-TPE 6	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 990.1	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
155	0000	-009 B	31645		2546	14404
155	0009	-0147	31649		2547	14379
155	0017	-0130	31873		2565	14392
155	0025	-0099	32499		2615	14416
155	0042	-0073	32800		2638	14436
155	0063	-0055	32874		2644	14448
155	0084	-0011	33079		2658	14475
155	0128	-0103	33512		2697	14446
155	0173	-0150 B	33802		2722	14435
159	0197	-0141	33894		2729	14445
155	0218	-0138	33926		2732	14450
159	0265	-0058	34050		2739	14497
159	0334	0010	34240		2751	14542
159	0417	0049	34360		2758	14575
159	0600	0060	34467		2766	14612

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0090 B	31645		2546	14404	0000	00000	2532
0010	-0147	31660		2548	14379	0025	00001	2505
0020	-0118	3210 I		2583	14401	0049	00005	2171
0030	-0088	3267 I		2629	14425	0069	00010	1743
0050	-0067	3284 F		2641	14440	0102	00024	1620
0075	-0028	3298 B		2651	14464	0142	00049	1525
0100	-0033 D	3325 B		2673	14470	0178	00081	1322
0125	-0093	33485		2694	14449	0209	00116	1113
0150	-0134 B	33673		2711	14437	0235	00152	0954
0175	-0150 B	33812		2723	14436	0257	00190	0841
0200	-0141	33900		2730	14445	0278	00229	0775
0225	-0128	33942		2733	14456	0297	00271	0746
0250	-0088 B	34006		2736	14480	0315	00316	0712
0300	-0018	3415 B		2745	14523	0349	00411	0634
0400	0044	34342		2757	14570	0408	00619	0525
0500	0075 B	3446 D		2765	14602	0457	00847	0458
0600	0060	34467		2766	14612	0503	01104	0443

C-REF-NO 005	YR 1963	DEPTH 931	WAVES 1 XX	AIR T -05.2	VIS 7
CONS. NO 096	MONTH 10	MXSAMPD 08	WAVES 2 XX	WET B -05.5	STN
LAT 73-400N	DAY 07	NO.DPTH 16	WND-DIR 290	WW-CODE 70	
LON 76-170W	HR 18.6	W-COLOR	WND-SPD 19	CLD-TPE 6	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 989.6	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
186	0000	-016 B	31764		2557	14373
186	0010	-0161	31771		2558	14374
186	0019	-0164	31798		2560	14375
186	0029	-0164	31850		2564	14377
186	0048	-0158	32149		2588	14387
186	0072	-0147	32292		2600	14399
186	0097	-0147	32441		2612	14405
186	0146	-0146	32798		2640	14418
186	0196	-0127	33274		2678	14442
186	0246	-0137	33774		2719	14453
190	0277	-0114	33956		2733	14471
190	0371	0013	34271		2753	14550
190	0465	0028	34349		2759	14574
190	0561	0040	34381		2761	14595
190	0755	0046	34462		2767	14632
190	0829	0030	34459		2767	14637

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0160 B	31764		2557	14373	0000	00000	2424
0010	-0161	31771		2558	14374	0024	00001	2417
0020	-0164	31801		2560	14375	0049	00005	2393
0030	-0164	3187 B		2565	14378	0072	00011	2343
0050	-0157	32166		2590	14388	0117	00029	2111
0075	-0147	32309		2601	14399	0169	00062	2001
0100	-0147	32460		2613	14405	0218	00106	1883
0125	-0148	32633		2627	14412	0264	00158	1748
0150	-0144	32834		2643	14420	0306	00218	1593
0175	-0134	33066		2662	14432	0344	00281	1417
0200	-0128	33318		2682	14443	0377	00344	1224
0225	-0135	3358 D		2703	14448	0405	00406	1022
0250	-0135	33801		2721	14455	0429	00463	0850
0300	-0082 B	3406 B		2741	14492	0467	00570	0671
0400	0024 B	3431 B		2756	14560	0528	00786	0536
0500	0033	34363		2760	14582	0581	01028	0502
0600	0045	3440 B		2762	14604	0630	01308	0481
0700	0049	3444 B		2765	14624	0677	01623	0452
0800	0036	34457		2767	14634	0722	01969	0434

C-REF-NO 005	YR 1963	DEPTH 1005	WAVES 1 2820	AIR T -06.5	VIS 5
CONS. NO 097	MONTH 10	MXSAMPD 09	WAVES 2 XX	WET 8 -06.7	STN
LAT 73-340N	DAY 07	NO.DPTH 17	WND-DIR 290	WW-CODE 71	
LON 76-420W	HR 20.7	W-COLOR	WND-SPD 15	CLD-TPE 6	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 991.7	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
207	0000	-016 B	31933	829	2571	14376
207	0009	-0164	31921	829	2570	14375
207	0019	-0165	31930	823	2571	14376
207	0028	-0164	31927	822	2570	14378
207	0047	-0156	31948	819	2572	14385
207	0070	-0150	32063	816	2581	14394
212	0075	-0154	32076	810	2582	14393
207	0094	-0155	32216	800	2594	14397
207	0141	-0150	32387	782	2607	14410
212	0155	-0138	32458	770	2613	14419
207	0190	-0138	32955	676	2653	14432
212	0239	-0126	33429	675	2691	14452
212	0322	-0114	33891	625	2728	14478
212	0494	0031	34288	560	2754	14579
212	0628	0049				
223	0727	0046	34479	560	2768	14627
223	0865	0020	34550	581 B	2775	14639

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0160 B	31933	829	2571	14376	0000	00000	2294
0010	-0164	31922	828	2570	14375	0023	00001	2301
0020	-0165	31930	823	2571	14376	0046	00005	2293
0030	-0163	31927	822	2570	14379	0069	00011	2295
0050	-0154	3196 B	820	2573	14387	0115	00029	2267
0075	-0154	32076	810	2582	14393	0171	00065	2178
0100	-0156	3224 B	798	2596	14398	0224	00113	2048
0125	-0155	3234 E	790	2603	14404	0275	00171	1973
0150	-0142	32428	775	2610	14416	0324	00240	1905
0175	-0136	3272 H	717 B	2634	14427	0369	00315	1679
0200	-0136	33068	670	2662	14436	0408	00389	1413
0225	-0130	33314	669	2682	14446	0441	00461	1225
0250	-0125	3351 B	670	2697	14455	0470	00532	1077
0300	-0119	3380 C	641	2721	14471	0519	00668	0856
0400	-0050 D	3413 G	589	2745	14524	0594	00932	0630
0500	0033	34296	559	2754	14581	0654	01206	0553
0600	0050	3441 D	551	2762	14607	0706	01500	0482
0700	0048	3447 B	556	2767	14624	0752	01808	0433
0800	0036	3454 D	565	2774	14636	0793	02119	0368

C-REF-NO 005	YR 1963	DEPTH 1069	WAVES 1 3221	AIR T -08.3	VIS 7
CONS. NO 098	MONTH 10	MXSAMPD 09	WAVES 2 XX	WET B -08.6	STN
LAT 73-300N	DAY 07	NO.DPTH 16	WND-DIR 320	WW-CODE 02	
LON 77-000W	HR 23.8	W-COLOR	WND-SPD 15	CLD-TPE 3	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 992.8	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
238	0000	-014 B	31641		2547	14381
238	0010	-0149	31674		2550	14379
238	0019	-0150	31675		2550	14380
238	0028	-0156	31795		2559	14380
238	0046	-0165 B	31827		2562	14379
238	0070	-0131	31878		2566	14400
238	0093	-0149	32048		2580	14398
238	0140	-0104	32599		2623	14434
238	0188	-0137	33130		2667	14434
238	0236	-0145	33714		2715	14447
*242	0244	-0134	33693		2713	14453
*242	0329	-0085	33969		2733	14494
*242	0417	0024	34234		2750	14562
*242	0511	0049	34345		2757	14591
*242	0707	0049	34412		2763	14624
*242	0907	0038	34456		2767	14653

#MULTIPLE CAST CONTINUED NEXT DAY

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0140 B	31641		2547	14381	0000	00000	2522
0010	-0149	31674		2550	14379	0025	00001	2494
0020	-0151	31687		2551	14380	0050	00005	2483
0030	-0158	3181 B		2560	14380	0075	00011	2390
0050	-0159 B	31831		2562	14383	0123	00031	2368
0075	-0134	31907		2568	14400	0182	00069	2313
0100	-0143 B	3212 B		2586	14403	0238	00119	2143
0125	-0120 B	3241 D		2608	14422	0289	00178	1927
0150	-0109	32709		2632	14435	0335	00242	1700
0175	-0125	32985		2655	14436	0375	00308	1481
0200	-0140	3329 C		2680	14437	0409	00374	1241
0225	-0142	3357 H		2703	14444	0437	00436	1024
0250	-0137	3378 I		2720	14454	0461	00493	0865
0300	-0111	3398 G		2735	14477	0501	00605	0717
0400	0004 B	34190		2747	14550	0568	00845	0615
0500	0049	34338		2757	14589	0626	01110	0532
0600	0054	3439 C		2761	14608	0678	01403	0496
0700	0050	34412		2763	14623	0728	01732	0478
0800	0053 B	3446 E		2766	14642	0774	02090	0443

C-REF-NO 005	YR 1963	DEPTH 1636	WAVES 1 00XX	AIR T -02.3	VIS 3
CONS. NO 099	MONTH 10	MXSAMPD 15	WAVES 2 XX	WET B -02.7	STN
LAT 74-300N	DAY 08	NO.DPTH 19	WND-DIR 040	WW-CODE 73	
LON 70-000W	HR 13.7	W-COLOR	WND-SPD 01	CLD-TPE X	
MARSD SQ 260	C/I 1810	W-TRNSP	BARO 995.0	CLD-AMT 9	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
137	0000	-012 B	33079	802	2663	14411
137	0010	-0118	33112	817	2665	14414
137	0020	-0114	33217	783	2673	14419
137	0030	-0111	33251	790	2676	14422
137	0050	-0131	33508	738	2698	14420
137	0075	-0154	33754	694	2718	14416
137	0100	-0157	33827	680	2724	14420
137	0150	-0140	33898	655	2729	14437
137	0200	-0038	34035	581	2737	14495
137	0250	0027	34190	543	2746	14535
137	0300	0072 B	34291	542	2751	14565
137	0400	0130	34453	540	2761	14610
144	0500	0149	34512	539	2764	14636
144	0600	0122	34512	538	2766	14641
144	0800	0074	34496	514	2768	14652
144	1000	0035	34472	493	2768	14668
144	1200	0012	34474	445	2770	14691
144	1400	-0013	34481	368	2771	14713
144	1500	-0025 B	34481	354	2772	14725

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0120 B	33079	802	2663	14411	0000	00000	1422
0010	-0118	33112	817	2665	14414	0014	00001	1397
0020	-0114	33217	783	2673	14419	0028	00003	1317
0030	-0111	33251	790	2676	14422	0041	00006	1291
0050	-0131	33508	738	2698	14420	0065	00016	1087
0075	-0154	33754	694	2718	14416	0090	00031	0890
0100	-0157	33827	680	2724	14420	0112	00051	0832
0125	-0156	3387 B	670	2727	14425	0132	00075	0802
0150	-0140	33898	655	2729	14437	0152	00103	0780
0175	-0092 B	33961	619	2733	14465	0171	00135	0747
0200	-0038	34035	581	2737	14495	0190	00170	0714
0225	-0002	34115	557	2741	14517	0207	00208	0671
0250	0027	34190	543	2746	14535	0224	00248	0630
0300	0072 B	34291	542	2751	14565	0254	00334	0581
0400	0130	34453	540	2761	14610	0309	00529	0502
0500	0149	34512	539	2764	14636	0358	00757	0475
0600	0122	34512	538	2766	14641	0405	01023	0456

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0700	0097	34506	528	2767	14646	0451	01327	0443
0800	0074	34496	514	2768	14652	0495	01669	0434
1000	0035	34472	493	2768	14668	0582	02470	0422
1200	0012	34474	445	2770	14691	0665	03414	0402
1500	-0025 B	34481	354	2772	14725	0782	05023	0363

C-REF-NO 005	YR 1963	DEPTH 438	WAVES 1 1321	AIR T -01.3	VIS 8
CONS. NO 100	MONTH 10	MXSAMPD 04	WAVES 2 18X3	WET B -02.1	STN
LAT 74-300N	DAY 09	NO.DPTH 12	WND-DIR 130	WW-CODE 01	
LON 64-050W	HR 04.6	W-COLOR	WND-SPD 05	CLD-TPE 6	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 996.8	CLD-AMT 2	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
046	0000	-003 B	32157		2585	14440
046	0010	-0034	32133		2583	14439
046	0020	-0025	32345		2600	14448
046	0030	-0104	33447		2692	14428
046	0050	-0156	33448		2693	14407
046	0075	-0161	33721		2716	14413
046	0100	-0157	33754		2718	14419
046	0150	-0081	33892		2727	14465
046	0200	-0016	34016		2734	14505
046	0250	0064	34172		2742	14552
046	0300	0108 B	34267		2747	14581
046	0400	0150	34501		2763	14620

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0030 B	32157		2585	14440	0000	00000	2159
0010	-0034	32133		2583	14439	0022	00001	2175
0020	-0025	32345		2600	14448	0043	00004	2016
0030	-0104	33447		2692	14428	0059	00008	1143
0050	-0156	33448		2693	14407	0082	00018	1126
0075	-0161	33721		2716	14413	0107	00034	0914
0100	-0157	33754		2718	14419	0130	00054	0888
0125	-0124 B	3382 B		2722	14440	0152	00079	0848
0150	-0081	33892		2727	14465	0173	00109	0806
0175	-0049	33953		2731	14485	0193	00142	0772
0200	-0016	34016		2734	14505	0212	00178	0739
0225	0025	3410 B		2738	14529	0230	00218	0701
0250	0064	34172		2742	14552	0247	00260	0666
0300	0108 B	34267		2747	14581	0280	00352	0624
0400	0150	34501		2763	14620	0336	00549	0481

C-REF-NO 005	YR 1963	DEPTH 747	WAVES 1 0921	AIR T -01.C	VIS 8
CONS. NO 101	MONTH 10	MXSAMPD 07	WAVES 2 12X1	WET B -02.C	STN
LAT 74-300N	DAY 09	NO.DPTH 15	WND-DIR 090	WW-CODE 02	
LON 59-300W	HR 11.2	W-COLOR	WND-SPD 12	CLD-TPE 7	
MARSD SQ 258	C/I 1810	W-TRNSP	BARO 999.3	CLD-AMT 1	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
112	0000	002 B	32546	796	2614	14468
112	0010	0017	32536	800	2613	14468
112	0020	0056	32762	790	2630	14491
112	0030	0028	33189	822 B	2665	14486
112	0050	-0108	33645	810	2708	14432
112	0075	-0132	33724	740	2715	14426
112	0100	-0139	33765	714	2719	14428
112	0150	-0059	33886	626	2726	14475
112	0200	0002	34032	579	2735	14513
112	0250	0055	34164	550	2742	14548
116	0300	0109 B	34282	528	2748	14582
116	0400	0152	34431	520	2757	14620
116	0500	0142	34486	509	2763	14633
116	0600	0120	34515	504	2766	14640
116	0700	0079	34509	493	2769	14638

*TIME-DISTANCE CHECK FAILED

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0020 B	32546	796	2614	14468	0000	00000	1882
0010	0017	32536	800	2613	14468	0019	00001	1888
0020	0056	32762	790	2630	14491	0037	00004	1735
0030	0028	33189	822 B	2665	14486	0053	00008	1395
0050	-0108	33645	810	2708	14432	0077	00017	0989
0075	-0132	33724	740	2715	14426	0101	00032	0920
0100	-0139	33765	714	2719	14428	0124	00053	0885
0125	-0106 B	33821	670	2722	14448	0146	00078	0852
0150	-0059	33886	626	2726	14475	0167	00108	0819
0175	-0027	33958	599	2730	14495	0187	00141	0778
0200	0002	34032	579	2735	14513	0206	00178	0737
0225	0029	34100	563	2739	14531	0224	00218	0700
0250	0055	34164	550	2742	14548	0241	00260	0667
0300	0109 B	34282	528	2748	14582	0274	00351	0613
0400	0152	34431	520	2757	14620	0332	00557	0535
0500	0142	34486	509	2763	14633	0383	00796	0489
0600	0120	34515	504	2766	14640	0431	01064	0453
0700	0079	34509	493	2769	14638	0475	01360	0427

C-REF-NO 005	YR 1963	DEPTH	502	WAVES 1 0921	AIR T -01.0	VIS	B
CONS. NO 102	MONTH 10	MXSAMPD	04	WAVES 2 24X1	WET B -02.0	STN	
LAT 74-310N	DAY 09	NO.DPTH	12	WND-DIR 090	WW-CODE 02		
LON 58-380W	HR 13.6	W-COLOR		WND-SPD 02	CLD-TPE 7		
MARSD SQ 258	C/I 1810	W-TRNSP		BARO 999.3	CLD-AMT 1	HW	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
136	0000	001 B	32364		2600	14461
136	0010	0018	32436		2605	14467
136	0020	0088	32905		2639	14507
136	0030	0079	33252		2668	14510
136	0050	-0132	33598		2705	14420
136	0075	-0142	33683		2712	14421
136	0100	-0155	33735		2717	14420
136	0150	-0101	33827		2722	14455
136	0200	-0036	33945		2729	14495
136	0250	-0008	34009		2733	14517
140	0300	0040	34127		2740	14549
140	0400	0078	34283		2750	14585

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0010 B	32364		2600	14461	0000	00000	2017
0010	0018	32436		2605	14467	0020	00001	1965
0020	0088	32905		2639	14507	0038	00004	1643
0030	0079	33252		2668	14510	0053	00008	1374
0050	-0132	33598		2705	14420	0077	00017	1018
0075	-0142	33683		2712	14421	0102	00033	0948
0100	-0155	33735		2717	14420	0126	00054	0903
0125	-0135 B	33780		2720	14434	0148	00080	0873
0150	-0101	33827		2722	14455	0170	00110	0848
0175	-0067	33888		2726	14476	0191	00145	0814
0200	-0036	33945		2729	14495	0211	00184	0784
0225	-0021	3398 B		2731	14506	0230	00226	0766
0250	-0008	34009		2733	14517	0249	00273	0748
0300	0040	34127		2740	14549	0286	00375	0685
0400	0078	34283		2750	14585	0350	00605	0592

C-REF-NO 005	YR 1963	DEPTH 803	WAVES 1 0221	AIR T -01.9	VIS 8
CONS. NO 103	MONTH 10	MXSAMPD 07	WAVES 2 04X1	WET B -03.1	STM
LAT 74-250N	DAY 09	NO.DPTH 15	WNO-DIR 030	WW-CODE 02	
LON 59-120W	HR 15.6	W-COLOR	WNO-SPD 06	CLD-TPE 3	
MARSD SQ 258	C/I 1810	W-TRNSP	BARO 998.6	CLD-AMT 1	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
156	0000	001 B	32409		2603	14462
156	0010	0003	32398		2603	14460
156	0019	0056	32644		2620	14489
156	0029	-0144	33511		2698	14410
156	0049	-0158	33635		2709	14409
156	0073	-0164	33720		2716	14411
156	0097	-0163	33750		2718	14416
156	0146	-0077	33860		2724	14466
156	0194	-0066	33957		2732	14480
156	0243	0036	34128		2740	14537
160	0292	0076 B	34223		2746	14565
160	0391	0126	34403		2757	14606
160	0490	0140	34475		2762	14630
160	0590	0134	34516		2765	14644
160	0689	0102	34522		2768	14647

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0010 B	32409		2603	14462	0000	00000	1983
0010	0003	32398		2603	14460	0020	00001	1988
0020	0039 B	3273 F		2628	14483	0039	00004	1752
0030	-0151 B	3354 F		2701	14407	0053	00007	1056
0050	-0158	33640		2709	14409	0073	00016	0978
0075	-0165	33723		2716	14411	0097	00031	0911
0100	-0158	33756		2718	14419	0120	00051	0886
0125	-0116 C	33810		2721	14443	0142	00076	0857
0150	-0076	33867		2725	14467	0163	00106	0827
0175	-0071 B	33915		2728	14474	0183	00140	0791
0200	-0054	33978		2733	14487	0203	00178	0750
0225	-0003 B	3407 B		2737	14516	0221	00218	0708
0250	0044	34144		2741	14542	0239	00260	0675
0300	0081 B	34240		2747	14569	0272	00353	0626
0400	0128	34412		2758	14609	0330	00561	0531
0500	0140	34481		2762	14632	0382	00799	0492
0600	0131	34518		2766	14645	0430	01070	0459

C-REF-NO 005	YR 1963	DEPTH	730	WAVES 1 0422	AIR T -01.1	VIS 8
CONS. NO 104	MONTH 10	MXSAMPD	06	WAVES 2 04X2	WET B -02.9	STN
LAT 74-200N	DAY 09	NO.DPTH	14	WND-DIR 040	WW-CODE 03	
LON 60-000W	HR 17.8	W-COLOR		WND-SPD 11	CLD-TPE 3	
MARSD SQ 259	C/I 1810	W-TRNSP		BARO 997.3	CLD-AMT 1	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
178	0000	005 B	32838		2636	14486
178	0010	0046	32834		2636	14486
178	0020	0072	32939		2643	14500
178	0030	-0043	33377		2684	14456
178	0050	-0130	33685		2712	14423
178	0075	-0147	33738		2717	14419
178	0100	-0146	33772		2719	14425
178	0150	-0064	33893		2726	14473
178	0200	0015	34060		2736	14520
178	0250	0068	34190		2744	14554
182	0300	0121	34316		2750	14588
182	0400	0151	34441		2758	14619
182	0500	0138	34496		2764	14631
182	0600	0124	34520		2767	14642

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0050 B	32838		2636	14486	0000	00000	1674
0010	0046	32834		2636	14486	0017	00001	1675
0020	0072	32939		2643	14500	0033	00003	1608
0030	-0043	33377		2684	14456	0048	00007	1219
0050	-0130	33685		2712	14423	0070	00016	0952
0075	-0147	33738		2717	14419	0093	00031	0905
0100	-0146	33772		2719	14425	0115	00051	0877
0125	-0111 B	33825		2723	14446	0137	00076	0846
0150	-0064	33893		2726	14473	0158	00105	0812
0175	-0023	33976		2731	14497	0178	00138	0767
0200	0015	34060		2736	14520	0197	00175	0722
0225	0043	34128		2740	14538	0214	00213	0687
0250	0068	34190		2744	14554	0231	00255	0655
0300	0121	34316		2750	14588	0263	00343	0596
0400	0151	34441		2758	14619	0320	00546	0527
0500	0138	34496		2764	14631	0370	00780	0479
0600	0124	34520		2767	14642	0417	01045	0452

C-REF-NO 005	YR 1963	DEPTH 681	WAVES 1 0423	AIR T -01.6	VIS 8
CONS. NO 105	MONTH 10	MXSAMPD 06	WAVES 2 04X2	WET B -02.5	STN
LAT 74-070N	DAY 09	NO.DPTH 14	WND-DIR 040	WW-CODE 02	
LON 61-350W	HR 21.3	W-COLOR	WND-SPD 10	CLD-TPE 3	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 995.5	CLD-AMT 1	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
213	0000	005 B	32582		2615	14482
213	0009	0005	32552		2615	14463
213	0019	0006	32554		2615	14465
213	0028		32991			
213	0048	-0136	33697		2713	14420
213	0072	-0152	33745		2717	14417
213	0096	-0151	33774		2720	14422
213	0145	-0073	33882		2726	14468
213	0194	-0045	33979		2732	14490
213	0244	0018	34090		2738	14529
217	0300	0084	34228		2746	14570
217	0400	0161	34446		2758	14624
217	0500	0155	34523		2765	14639
217	0600	0094	34517		2768	14628

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0050 B	32582		2615	14482	0000	00000	1869
0010	0004	3254 C		2614	14462	0019	00001	1880
0020	0002	3259 C		2619	14464	0038	00004	1837
0030	-0043 E	3308 B		2660	14451	0054	00008	1444
0050	-0139	3372 D		2715	14419	0078	00017	0924
0075	-0153	33749		2718	14417	0101	00032	0895
0100	-0146	33782		2720	14425	0123	00052	0870
0125	-0108 B	33835		2723	14447	0145	00077	0840
0150	-0070	33892		2726	14470	0165	00106	0810
0175	-0055	33941		2730	14482	0185	00139	0778
0200	-0038	33992		2733	14494	0205	00176	0747
0225	-0008	34046		2736	14513	0223	00217	0720
0250	0026	34105		2739	14533	0241	00260	0694
0300	0084	34228		2746	14570	0275	00355	0637
0400	0161	34446		2758	14624	0334	00564	0531
0500	0155	34523		2765	14639	0384	00797	0472
0600	0094	34517		2768	14628	0430	01054	0431

C-REF-NO 005	YR 1963	DEPTH 2286	WAVES 1 0923	AIR T -01.4	VIS 8
CONS. NO 106	MONTH 10	MXSAMPD 22	WAVES 2 13X2	WET B -02.1	STN
LAT 72-450N	DAY 10	NO.DPTH 20	WND-DIR 090	WW-CODE 15	
LON 64-400W	HR 06.3	W-COLOR	WND-SPD 08	CLD-TPE 6	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 994.7	CLD-AMT 4	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
063	0000	-014 B	30974	843	2493	14372
063	0010	-0139	31259	850	2516	14378
063	0020	-0130	33084	823	2663	14409
063	0030	-0157	33231	788	2676	14400
063	0049	-0168	33404	748	2690	14401
063	0074	-0162	33524	741	2700	14409
063	0099	-0158	33637	735	2709	14417
063	0148	-0160	33749	728	2718	14426
063	0197	-0138	33859	673	2726	14446
063	0247	-0083	33985	619	2735	14481
063	0296	-0020	34127	571	2743	14521
063	0395	0083	34363	543	2757	14587
063	0494	0119	34476	538	2763	14621
071	0592	0122	34524	523	2767	14639
071	0791	0078	34521	503	2770	14653
071	0991	0038	34503	490	2771	14668
071	1191	0010	34496	408	2771	14689
071	1491	-0026	34510	361	2774	14723
071	1991	-0040	34528	334	2777	14802
071	2191	-0039	34525	327	2776	14837

*TIME-DISTANCE CHECK FAILED

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0140 B	30974	843	2493	14372	0000	00000	3036
0010	-0139	31259	850	2516	14378	0029	00001	2816
0020	-0130	33084	823	2663	14409	0051	00004	1414
0030	-0157	33231	788	2676	14400	0064	00008	1294
0050	-0168	33410	747	2691	14401	0089	00018	1152
0075	-0162	33529	741	2700	14410	0117	00036	1061
0100	-0158	33640	735	2709	14417	0143	00058	0975
0125	-0160	3371 B	734	2714	14421	0166	00086	0923
0150	-0160	33753	726	2718	14426	0189	00118	0884
0175	-0151	33809	701	2722	14435	0211	00154	0843
0200	-0135	33866	670	2727	14447	0232	00194	0803
0225	-0110	33928	642	2731	14464	0252	00237	0764
0250	-0079	33994	616	2735	14484	0270	00283	0725
0300	-0015	34138	569	2744	14524	0305	00380	0645
0400	0086	34371	543	2757	14589	0364	00591	0532

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0500	0120	34480	537	2764	14623	0415	00825	0476
0600	0121	34525	522	2767	14640	0462	01088	0445
0700	0102	3453 B	511	2769	14649	0506	01383	0428
0800	0076	34520	503	2770	14654	0549	01712	0417
1000	0037	34502	487	2771	14669	0631	02478	0400
1200	0009	34496	406	2772	14690	0711	03375	0382
1500	-0027	34511	360	2775	14725	0821	04893	0339
2000	-0043	34526	330	2776	14803	0985	07832	0306

C-REF-NO 005 YR 1963 DEPTH 2395 WAVES 1 1123 AIR T -02.2 VIS 8
 CONS. NO 107 MONTH 10 MXSAMPD 23 WAVES 2 11X2 WET B -02.7 STN
 LAT 72-200N DAY 10 NO.DPTH 9 WND-DIR 110 WW-CODE 15
 LON 65-250W HR 11.6 W-COLOR WND-SPD 06 CLD-TPE 7
 MARSD SQ 259 C/I 1810 W-TRNSP BARO 995.7 CLD-AMT 7 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
116	0400	0089	34345	520 B	2755	14590
116	0500	0141	34500	503 B	2764	14632
116	0600	0129	34525	478 B	2767	14644
116	0800	0076	34517	476 B	2769	14653
116	1000	0043	34509	410 B	2771	14672
116	1200	0008	34492	336 B	2771	14689
116	1500	-0026	34510	308 B	2774	14725
116	2000	-0040	34523	298 B	2776	14804
116	2300	-0038	34520	299	2776	14856

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0400	0089	34345	520 B	2755	14590	0365	00596	0553
0500	0141	34500	503 B	2764	14632	0418	00835	0478
0600	0129	34525	478 B	2767	14644	0465	01100	0452
0700	0104	34526	477 B	2768	14649	0509	01399	0433
0800	0076	34517	476 B	2769	14653	0552	01732	0420
1000	0043	34509	410 B	2771	14672	0635	02499	0401
1200	0008	34492	336 B	2771	14689	0715	03400	0385
1500	-0026	34510	308 B	2774	14725	0825	04925	0340
2000	-0040	34523	298 B	2776	14804	0991	07891	0310

C-REF-NO 005	YR 1963	DEPTH 776	WAVES 1 0424	AIR T -01.0	VIS 3
CONS. NO 108	MONTH 10	MXSAMPD 03	WAVES 2 12X7	WET B -01.3	STN
LAT 71-300N	DAY 11	NO.DPTH 11	WND-DIR 040	WW-CODE 73	
LON 69-300W	HR 06.4	W-COLOR	WND-SPD 10	CLD-TPE X	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 998.6	CLD-AMT 9	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
064	0000	-001 B	32335	809	2598	14451
064	0010	-0019	32325	803	2598	14449
064	0019	-0019	32320	803	2598	14450
064	0029	-0017	32350	790	2600	14453
064	0048	-0008	32847	769	2640	14467
064	0072	-0073	33164	715	2668	14446
064	0096	-0113	33388	694	2687	14434
064	0145	-0140	33662	660 B	2710	14433
064	0194	-0145	33763	680	2719	14440
064	0244	-0137	33872	668	2727	14454
064	0294	-0122	33951	644	2733	14470

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0010 B	32335	809	2598	14451	0000	00000	2031
0010	-0019	32325	803	2598	14449	0020	00001	2034
0020	-0019	32319	802	2597	14450	0041	00004	2039
0030	-0016	3237 B	789	2602	14454	0061	00009	1999
0050	-0012	32882	764	2643	14466	0098	00024	1610
0075	-0079	33196	711	2671	14444	0135	00047	1342
0100	-0117	33418	690	2690	14433	0166	00075	1157
0125	-0135	33575	670	2703	14431	0194	00107	1030
0150	-0141	33676	662 B	2711	14434	0219	00142	0949
0175	-0145	33773 B	671	2716	14437	0242	00181	0902
0200	-0145	33777	680	2720	14442	0264	00224	0868
0225	-0141	33832	675	2724	14448	0286	00270	0826
0250	-0137	33877	669	2728	14455	0306	00320	0791

C-REF-NO 005	YR 1963	DEPTH 2323	WAVES 1 0123	AIR T -01.8	VIS 8
CONS. NO 109	MONTH 10	MXSAMPD 06	WAVES 2 1236	WET B -02.6	STN
LAT 71-300N	DAY 11	NO.DPTH 14	WND-DIR 010	WW-CODE 02	
LON 65-000W	HR 17.3	W-COLOR	WND-SPD 14	CLO-TPE 6	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 1002.0	CLO-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
173	0000	-006 B	31479		2531	14416
173	0010	-0066	31492		2533	14415
173	0019	-0064	31490		2532	14418
173	0029	-0076	32576		2620	14429
173	0049	-0134	33027		2659	14411
173	0073	-0130	33201		2673	14420
173	0097	-0136	33392		2688	14423
173	0146	-0156	33728		2716	14427
173	0195	-0146	33866		2727	14442
178	0250	-0114	33981		2735	14467
178	0300	-0013	34137		2744	14525
178	0400	0091	34384		2758	14592
178	0500	0130	34502		2765	14627
178	0600	0125	34531		2767	14642

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0060 B	31479		2531	14416	0000	00000	2668
0010	-0066	31492		2533	14415	0027	00001	2656
0020	-0065	3159 I		2540	14419	0053	00005	2583
0030	-0079	3263 E		2625	14428	0075	00011	1778
0050	-0135	33038		2660	14411	0108	00024	1446
0075	-0130	33217		2674	14420	0142	00046	1309
0100	-0138	33416		2690	14424	0173	00073	1152
0125	-0149	3360 B		2706	14425	0200	00105	1006
0150	-0156	33744		2717	14428	0224	00138	0893
0175	-0153	3382 B		2724	14434	0246	00174	0831
0200	-0145	33876		2728	14443	0267	00214	0792
0225	-0135	3393 B		2732	14453	0286	00256	0755
0250	-0114	33981		2735	14467	0305	00302	0720
0300	-0013	34137		2744	14525	0339	00399	0647
0400	0091	34384		2758	14592	0398	00608	0525
0500	0130	34502		2765	14627	0449	00839	0468
0600	0125	34531		2767	14642	0495	01099	0445

C-REF-NO 005	YR 1963	DEPTH 703	WAVES 1 1021	AIR T 00.6	VIS 8
CONS. NO 110	MONTH 10	MXSAMPD 06	WAVES 2 1533	WET B -00.9	STN
LAT 70-300N	DAY 12	NO.DPTH 15	WND-DIR 100	WW-CODE 01	
LON 60-000W	HR 07.4	W-COLOR	WND-SPD 07	CLD-TPE 3	
MARSD SQ 259	C/I 1810	W-TRNSP	BARO 1009.0	CLD-AMT 7	HW

OBSERVED

GMT	DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND
074	0000	003 B	32683	785	2625	14475
074	0009	0024		794		
074	0019	0024	32700	786	2626	14475
074	0028	0023	32750	911 C	2630	14477
074	0048	-0144	33588	771	2704	14414
074	0072	-0151	33668	741	2711	14416
074	0097	-0128	33723	730	2715	14432
074	0146	0001	33966	656	2729	14503
074	0196	0092	34178	638	2741	14556
074	0245	0159	34350	585	2750	14596
074	0295	0180	34454	575	2757	14615
079	0380	0164	34524	558	2764	14623
079	0479	0129	34526	548	2767	14624
079	0578	0090	34530	530	2770	14623
079	0628	0079	34517	513	2769	14626

INTERPOLATED

DEPTH	TEMP	SAL	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
0000	0030 B	32683	785	2625	14475	0000	00000	1782
0010	0024	3260 I	790	2618	14472	0018	00001	1845
0020	0025	32700	800	2626	14476	0036	00004	1767
0030	0008 B	3283 I	908 D	2637	14471	0054	00008	1661
0050	-0149	3361 D	765	2707	14413	0081	00018	1000
0075	-0150	33674	740	2712	14417	0105	00034	0953
0100	-0121	33736	726	2716	14436	0129	00055	0913
0125	-0059 B	3385 C	689	2723	14471	0151	00081	0846
0150	0009	33984	654	2730	14508	0171	00110	0777
0175	0058	34093	644	2736	14536	0190	00141	0722
0200	0099	34194	634	2742	14560	0208	00175	0671
0225	0136	34286	606	2747	14581	0224	00210	0628
0250	0163	34363	583	2751	14599	0239	00248	0590
0300	0180	34461	574	2758	14616	0268	00327	0532
0400	0158	34528	556	2765	14624	0316	00507	0467
0500	0120	34528	545	2767	14623	0364	00719	0440
0600	0086	34522	522	2769	14625	0408	00964	0421

C-REF-NO 005	YR 1963	DEPTH 138	WAVES 1 1620	AIR T 01.3	VIS 8
CONS. NO 111	MONTH 10	MXSAMPD 01	WAVES 2 1634	WET B -01.1	STN
LAT 70-000N	DAY 12	NO.DPTH 7	WND-DIR 160	WW-CODE 01	
LON 56-000W	HR 18.2	W-COLOR	WND-SPD 03	CLD-TPE 3	
MARSD SQ 258	C/I 1810	W-TRNSP	BARO 1013.9	CLD-AMT 5	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
182	0000	005 B	33483	745	2688	14495
182	0010	0226	33452	742	2674	14575
182	0020	0227	33440	745	2672	14576
182	0030	0226	33439	744	2672	14578
182	0050	0225	33445	740	2673	14581
182	0074	0061	33678	723	2703	14515
182	0099	-0002	33735	698	2711	14491

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0050 B	33483	745	2688	14495	0000	00000	1182
0010	0226	33452	742	2674	14575	0013	00001	1318
0020	0227	33440	745	2672	14576	0026	00003	1329
0030	0226	33439	744	2672	14578	0039	00006	1329
0050	0225	33445	740	2673	14581	0066	00017	1324
0075	0104 I	3361 I	723	2695	14533	0097	00037	1114
0100	-0007	33741	697	2712	14489	0123	00060	0956

C-REF-NO 005	YR 1963	DEPTH 1609	WAVES 1 1320	AIR T -01.0	VIS 8
CONS. NO 112	MONTH 10	MXSAMPD 15	WAVES 2 1934	WET 8 -01.6	STN
LAT 69-000N	DAY 13	NO.DPTH 19	WND-DIR 130	WW-CODE 01	
LON 60-000W	HR 05.7	W-COLOR	WND-SPD 02	CLD-TPE 4	
MARSD SQ 223	C/I 1810	W-TRNSP	BARO 1015.9	CLD-AMT 1	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
C57	0000	-007 B	31823	829	2559	14416
C57	0010	-0088	31779	829	2556	14409
057	0020	-0090	31791	832	2558	14410
C57	0030	-0070	32491	818	2613	14431
C57	0050	-0150	33372	754	2687	14409
C57	0075	-0151	33538	732	2701	14415
057	0100	-0159	33645	731	2709	14417
C57	0150	-0109	33795	685	2720	14450
057	0200	0027	34029	637	2733	14525
C57	0250	0068	34167	592	2742	14554
064	0400	0121	34409	575	2758	14606
064	0500	0125	34470	555	2762	14625
C64	0600	0096	34475	538	2765	14628
C64	0800	0046	34468	513	2767	14639
C64	1000	0012	34462	504	2769	14657
064	1200	0000	34473	416	2770	14685
064	1400	-0022 B	34479	356	2772	14709
C64	1500	-0023	34482	350	2772	14726
C64	1550	-0025	34481	347	2772	14733

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0070 B	31823	829	2559	14416	0000	00000	2401
0010	-0088	31779	829	2556	14409	0024	00001	2429
0020	-0090	31791	832	2558	14410	0049	00005	2418
0030	-0070	32491	818	2613	14431	0070	00010	1887
0050	-0150	33372	754	2687	14409	0101	00022	1186
0075	-0151	33538	732	2701	14415	0130	00040	1057
0100	-0159	33645	731	2709	14417	0155	00063	0971
0125	-0145	3372 C	712	2715	14428	0179	00091	0916
0150	-0109	33795	685	2720	14450	0201	00122	0869
0175	-0040 C	3391 C	661	2727	14488	0223	00157	0807
0200	0027	34029	637	2733	14525	0242	00195	0753
0225	0054	34106	613	2738	14542	0261	00235	0710
0250	0068	34167	592	2742	14554	0278	00278	0672
0300	0095	34272	577 B	2749	14575	0310	00369	0611
0400	0121	34409	575	2758	14606	0368	00574	0528
0500	0125	34470	555	2762	14625	0419	00810	0488
0600	0096	34475	538	2765	14628	0467	01082	0464

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0700	0069	34473	524	2766	14633	0513	01389	0446
0800	0046	34468	513	2767	14639	0558	01732	0433
1000	0012	34462	504	2769	14657	0643	02522	0411
1200	0000	34473	416	2770	14686	0725	03443	0393
1500	-0023	34482	350	2772	14726	0840	05037	0364

C-REF-NO 005	YR 1963	DEPTH 145	WAVES 1 0920	AIR T 00.2	VIS 8
CONS. NO 113	MONTH 10	MXSAMPD 01	WAVES 2 1032	WET B -00.4	STN
LAT 68-45GN	DAY 13	NO.DPTH 8	WND-DIR 090	WW-CODE C2	
LON 65-000W	HR 17.8	W-COLOR	WND-SPD 05	CLD-TPE 3	
MARSD SQ 223	C/I 1810	W-TRNSP	BARO 1015.2	CLD-AMT 3	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
178	0000	-013 B	31178	821	2509	14379
178	0010	-0122	30803	844	2479	14379
178	0020	-0067	32010	816	2574	14424
178	0030	-0074	32236	805	2593	14425
178	0050	-0122	32619	786	2625	14411
178	0075	-0158	32805	767	2641	14401
178	0100	-0150	32942	744	2652	14411
178	0120	-0149	32951	737	2653	14415

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0130 B	31178	821	2509	14379	0000	00000	2881
0010	-0122	30803	844	2479	14379	0030	00002	3170
0020	-0067	32010	816	2574	14424	0058	00006	2257
0030	-0074	32236	805	2593	14425	0080	00011	2081
0050	-0122	32619	786	2625	14411	0118	00027	1771
0075	-0158	32805	767	2641	14401	0161	00054	1617
0100	-0150	32942	744	2652	14411	0200	00089	1512

C-REF-NO 005	YR 1963	DEPTH 420	WAVES 1	XX	AIR T -02.5	VIS 8
CONS. NO 114	MONTH 10	MXSAMPD 04	WAVES 2	XX	WET B -03.2	STN
LAT 66-100N	DAY 14	NO.DPTH 12	WND-DIR 340	WW-CODE 01		
LON 60-300W	HR 18.9	W-COLOR	WND-SPD 10	CLD-TPE 0		
WARSQ SQ 223	C/I 1810	W-TRNSP	BARO 1008.6	CLD-AMT 2	HW	

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
189	0000	-016 B	31246	845	2515	14366
189	0010	-0161	31209	840	2512	14367
189	0020	-0162	31215	843	2513	14368
189	0030	-0160	31301	837	2520	14372
189	0050	-0124	32308	786	2600	14406
189	0075	-0125	32704	760	2632	14415
189	0100	-0151	33073	732	2663	14412
189	0149	-0153	33328	715	2684	14423
189	0199	-0154	33583	696	2704	14434
189	0248	-0150	33754	670	2718	14447
189	0297	-0100	33904	639	2729	14481
189	0386	-0023	34121	590	2743	14534

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0160 B	31246	845	2515	14366	0000	00000	2823
0010	-0161	31209	840	2512	14367	0029	00001	2850
0020	-0162	31215	843	2513	14368	0057	00006	2844
0030	-0160	31301	837	2520	14372	0085	00013	2777
0050	-0124	32308	786	2600	14406	0134	00032	2010
0075	-0125	32704	760	2632	14415	0180	00062	1704
0100	-0151	33073	732	2663	14412	0220	00096	1412
0125	-0156	3324 I	720	2677	14416	0253	00135	1279
0150	-0153	33334	715	2684	14423	0285	00179	1208
0175	-0154	33466	706	2695	14429	0314	00228	1104
0200	-0154	33587	696	2705	14435	0341	00279	1010
0225	-0155	33680	683	2712	14440	0365	00332	0937
0250	-0148	33761	669	2718	14448	0388	00388	0876
0300	-0110 C	33912	639	2730	14476	0430	00505	0772

C-REF-NO 005	YR 1963	DEPTH 396	WAVES 1 3523	AIR T -02.2	VIS 8
CONS. NO 115	MONTH 10	MXSAMPD 04	WAVES 2 35X2	WET B -03.1	STN
LAT 66-30CN	DAY 14	NO.DPTH 12	WND-DIR 350	WW-CODE 02	
LON 60-58CW	HR 22.6	W-COLOR	WND-SPD 12	CLD-TPE 4	
MARSD SQ 223	C/I 1810	W-TRNSP	BARO 1007.8	CLD-AMT 3	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
226	0000	-017 B	31906		2569	14370
226	0010	-0151	31841		2563	14380
226	0019	-0153	31835		2563	14381
226	0029	-0152	31839		2563	14383
226	0049	-0125	32349		2604	14406
226	0073	-0144	33021		2658	14410
226	0097	-0147	33161		2670	14415
226	0146	-0140	33386		2688	14430
226	0196	-0144	33444		2693	14437
226	0245	-0136	33481		2696	14449
226	0295	-0140	33674		2711	14458
226	0354	-0112	33887		2728	14484

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0170 B	31906		2569	14370	0000	00000	2313
0010	-0151	31841		2563	14380	0024	00001	2365
0020	-0153	31831		2562	14381	0047	00005	2371
0030	-0151	3186 B		2564	14384	0071	00011	2352
0050	-0125	3238 B		2606	14406	0114	00028	1953
0075	-0145	3304 B		2660	14411	0157	00055	1438
0100	-0147	33178		2671	14416	0192	00086	1332
0125	-0143	33305		2681	14423	0224	00123	1234
0150	-0140	33394		2689	14430	0255	00166	1165
0175	-0142	3343 B		2692	14434	0284	00214	1134
0200	-0143	33445		2693	14438	0312	00269	1122
0225	-0139	3346 B		2694	14444	0340	00330	1112
0250	-0137	33497		2697	14450	0368	00398	1081
0300	-0132 B	3366 G		2710	14463	0419	00542	0956

C-REF-NO 005	YR 1963	DEPTH 158	WAVES 1 3423	AIR T -02.9	VIS 8
CONS. NO 116	MONTH 10	MXSAMPD 00	WAVES 2 36X1	WET B -04.0	STN
LAT 66-290N	DAY 14	NO.DPTH 1	WND-DIR 340	WW-CODE 02	
LON 61-130W	HR 23.6	W-COLOR	WND-SPD 10	CLD-TPE 3	
MARSD SQ 223	C/I 1810	W-TRNSP	BARO 1007.7	CLD-AMT 2	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
236	0000					

C-REF-NO 005	YR 1963	DEPTH 730	WAVES 1 3124	AIR T -03.6	VIS 2
CONS. NO 117	MONTH 10	MXSAMPD 07	WAVES 2 31X1	WET B -04.4	STN
LAT 66-370N	DAY 15	NO.DPTH 15	WND-DIR 310	WW-CODE 70	
LON 59-570W	HR 06.3	W-COLOR	WND-SPD 10	CLO-TPE X	
MARSD SQ 222	C/I 1810	W-TRNSP	BARO 1004.0	CLO-AMT 9	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
063	0000	-0180 B	31523		2538	14360
063	0010	-0163	31493		2535	14370
063	0020	-0164	31488		2535	14371
063	0030	-0152	31980		2574	14385
063	0049	-0148	32888		2648	14403
063	0074	-0156	33053		2661	14405
063	0099	-0155	33238		2676	14413
063	0148	-0148	33485		2696	14427
063	0197	-0136	33703		2713	14444
063	0246	-0144	33838		2725	14451
063	0295	-0098	33961		2733	14482
067	0387	0007	34218		2749	14549
067	0484	0068	34437		2763	14596
067	0581	0078	34453		2764	14617
067	0678	0077	34379		2758	14632

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0180 B	31523		2538	14360	0000	00000	2606
0010	-0163	31493		2535	14370	0026	00001	2631
0020	-0164	31488		2535	14371	0053	00005	2634
0030	-0152	31980		2574	14385	0077	00012	2256
0050	-0148	3291 C		2649	14403	0116	00027	1544
0075	-0156	33061		2662	14406	0153	00050	1422
0100	-0155	33244		2677	14413	0187	00081	1279
0125	-0152	3338 B		2688	14420	0218	00116	1174
0150	-0147	33495		2697	14428	0246	00156	1086
0175	-0140	33612		2706	14437	0273	00200	0997
0200	-0137	33713		2714	14444	0297	00246	0920
0225	-0143	33786		2720	14447	0319	00295	0860
0250	-0141	33848		2725	14453	0340	00347	0812
0300	-0092	33975		2734	14486	0379	00456	0732
0400	0018	34255		2752	14557	0445	00689	0575
0500	0072	34450		2764	14601	0498	00929	0463
0600	0086	3447 D		2765	14624	0545	01194	0463

C-REF-NO 005	YR 1963	DEPTH 758	WAVES 1 00XX	AIR T -03.5	VIS 8
CONS. NO 118	MONTH 10	MXSAMPD 07	WAVES 2 3231	WET B -04.2	STN
LAT 66-300N	DAY 15	NO.DPTH 15	WND-DIR 310	WW-CODE 22	
LON 59-000W	HR 13.2	W-COLOR	WND-SPD 09	CLD-TPE 7	
MARSD SQ 222	C/I 1810	W-TRNSP	BARO 1003.2	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
132	0000	-019 B	31925	829	2571	14361
132	0009	-0172	31891	817	2568	14371
132	0019	-0173	31898	832	2568	14372
132	0028	-0156	32088	818	2583	14384
132	0046	-0132	32362	809	2605	14402
132	0070	-0152	33013	750	2658	14406
132	0094	-0143	33234	731	2676	14417
132	0142	-0154	33512	725	2699	14424
132	0190	-0086	33760	685	2716	14467
132	0239	0069	34045	642	2732	14551
138	0267	0122	34149	638	2737	14580
138	0361	0043	34248	568	2750	14562
138	0456	0064	34360	548	2758	14589
138	0552	0091	34433	539	2762	14618
138	0678	0069	34454	530	2765	14629

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0190 B	31925	829	2571	14361	0000	00000	2295
0010	-0172	31886	819	2567	14371	0023	00001	2327
0020	-0171	31916	831	2570	14373	0047	00005	2303
0030	-0152	3212 B	817	2586	14387	0069	00010	2151
0050	-0134	3247 F	800	2614	14404	0110	00027	1879
0075	-0151	3308 D	744	2663	14408	0151	00053	1409
0100	-0145	3328 B	730	2679	14418	0185	00083	1258
0125	-0152 B	3343 C	727	2692	14421	0215	00117	1138
0150	-0148	33553	720	2702	14429	0242	00156	1041
0175	-0116	33682	699	2711	14450	0267	00198	0951
0200	-0055 B	3382 B	674	2720	14484	0290	00242	0868
0225	0024 B	3397 B	652	2728	14527	0311	00287	0797
0250	0093	34090	640	2734	14564	0331	00335	0747
0300	0111 F	3421 E	616 B	2742	14582	0367	00436	0673
0400	0045 B	34296	556	2753	14570	0429	00657	0561
0500	0078	34399	543	2760	14603	0483	00905	0506
0600	0081 B	34449	533	2764	14621	0532	01183	0472

C-REF-NO 005	YR 1963	DEPTH 570	WAVES 1 3323	AIR T -02.8	VIS 8
CONS. NO 119	MONTH 10	MXSAMPD 05	WAVES 2 3334	WET B -03.5	STN
LAT 66-300N	DAY 15	NO.DPTH 13	WND-DIR 330	WW-CODE 26	
LON 57-500W	HR 19.7	W-COLOR	WND-SPD 14	CLD-TPE 6	
MARSD SQ 222	C/I 1810	W-TRNSP	BARO 999.6	CLD-AMT 3	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
197	0000	-0150 B	32151		2588	14383
197	0010	-0144	32118		2585	14387
197	0020	-0143	32125		2586	14390
197	0030	-0117	32273		2597	14406
197	0049	-0164	33003		2658	14397
197	0074	-0119	33379		2687	14427
197	0099	-0047	33615		2703	14468
197	0148	0012	33917		2725	14508
197	0197	0040	34050		2734	14531
197	0247	0032	34179		2745	14537
197	0297	0184	34424		2754	14617
197	0397	0146	34486		2762	14617
197	0522	0166	34584		2769	14648

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0150 B	32151		2588	14383	0000	00000	2128
0010	-0144	32118		2585	14387	0022	00001	2154
0020	-0143	32125		2586	14390	0043	00004	2148
0030	-0117	32273		2597	14406	0064	00010	2040
0050	-0164	33026		2659	14397	0099	00024	1448
0075	-0116	33390		2688	14429	0133	00044	1180
0100	-0045	33623		2704	14470	0160	00069	1028
0125	-0007	33799		2716	14494	0185	00097	0911
0150	0014	33924		2725	14509	0207	00128	0826
0175	0032	3400 B		2731	14522	0227	00162	0776
0200	0038	34056		2735	14530	0246	00198	0738
0225	0028 C	3412 B		2740	14531	0264	00237	0687
0250	0040	34194		2746	14541	0281	00278	0635
0300	0186	34430		2755	14618	0311	00363	0560
0400	0233 I	3459 I		2764	14657	0363	00550	0484
0500	0193 F	3461 G		2768	14657	0410	00765	0441

C-REF-NO 005 YR 1963 DEPTH 563 WAVES 1 3424 AIR T -02.1 VIS 7
 CONS. NO 120 MONTH 10 MXSAMPC 05 WAVES 2 3424 WET B -03.0 STN
 LAT 66-300N DAY 16 NO.DPTH 13 WND-DIR 340 WW-CODE 71
 LON 56-400W HR 02.3 W-COLOR WND-SPD 18 CLD-TPE 6
 MARSD SQ 222 C/I 1810 W-TRNSP BARO 998.2 CLD-AMT 4 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
023	0000	016 B	33076	749	2648	14539
023	0009	0209	33031	745	2641	14561
023	0018	0210	33032	741	2641	14563
023	0027	0210	33031	737	2641	14565
023	0045	0211	33031	738	2641	14568
023	0068	0322	33513	715	2670	14627
023	0090	0444	34070	680	2702	14689
023	0136	0498	34418	671	2724	14724
023	0183	0511	34614	660	2738	14740
023	0229	0511	34771	653	2750	14749
023	0276	0469	34783	667	2756	14740
023	0371	0503	34925	661	2763	14771
023	0468	0480	34939	660	2767	14778

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0160 B	33076	749	2648	14539	0000	00000	1557
0010	0210	33030	745	2641	14562	0016	00001	1627
0020	0210	33032	740	2641	14563	0032	00003	1625
0030	0208	3302 C	737	2640	14564	0049	00008	1633
0050	0229	3311 D	735	2646	14578	0081	00021	1582
0075	0363	3370 D	703	2681	14648	0117	00043	1252
0100	0469 B	3420 I	674	2710	14703	0145	00068	0985
0125	0499 C	3439 I	669	2722	14722	0169	00095	0876
0150	0505	3449 B	668	2728	14730	0190	00125	0815
0175	0511	34588	662	2736	14738	0210	00158	0749
0200	0514	3468 B	656	2743	14745	0228	00193	0685
0225	0512	34761	653	2749	14749	0244	00229	0627
0250	0492	3478 C	659	2753	14745	0260	00266	0591
0300	0473 B	3482 C	667	2758	14746	0288	00347	0548
0400	0470 F	3490 H	668	2765	14762	0341	00535	0495

C-REF-NO 005	YR 1963	DEPTH 209	WAVES 1 3324	AIR T -02.1	VIS 8
CONS. NO 121	MONTH 10	MXSAMPD 02	WAVES 2 3324	WET B -03.0	STN
LAT 66-300N	DAY 16	NO.DPTH 9	WND-DIR 330	WW-CODE 71	
LON 55-280W	HR 06.2	W-COLOR	WND-SPD 15	CLD-TPE 6	
MARSD SQ 222	C/I 1810	W-TRNSP	BARO 996.2	CLD-AMT 4	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
062	0000	015 B	33060		2648	14534
062	0010	0185	33032		2643	14551
062	0019	0186	33031		2643	14553
062	0029	0185	33029		2643	14554
062	0049	0184	33031		2643	14557
062	0073	0198	33096		2647	14568
062	0097	0247	33696		2691	14601
062	0146	0220	33932		2712	14601
062	0171	0272	34144		2725	14630

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0150 B	33060		2648	14534	0000	00000	1563
0010	0185	33032		2643	14551	0016	00001	1607
0020	0186	33031		2643	14553	0032	00003	1609
0030	0185	33028		2643	14554	0048	00007	1610
0050	0184	33028		2643	14557	0081	00021	1611
0075	0202	3314 D		2651	14570	0120	00046	1538
0100	0245	3373 E		2694	14602	0154	00076	1130
0125	0232 E	3390 I		2709	14602	0181	00106	0990
0150	0256 F	3410 I		2723	14619	0204	00139	0858

C-REF-NO 005	YR 1963	DEPTH 229	WAVES 1 3423	AIR T -01.9	VIS 8
CONS. NO 122	MONTH 10	MXSAMPD C2	WAVES 2 34X1	WET B -02.6	STN
LAT 66-300N	DAY 16	NO.DPTH 9	WND-DIR 340	WW-CODE 15	
LON 54-280W	HR 09.7	W-COLOR	WND-SPD 14	CLD-TPE 8	
MARSD SQ 222	C/I 1810	W-TRNSP	BARO 995.2	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
097	0000	012 B	32702		2621	14516
097	0010	0166	32688		2617	14538
097	0019	0168	32691		2617	14540
097	0029	0168	32698		2618	14542
097	0049	0172	32703		2618	14547
097	0073	0222	32978		2636	14577
097	0097	0234	33185		2652	14589
097	0146	0311	33957		2707	14641
097	0171	0335	34059		2712	14656

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0120 B	32702		2621	14516	0000	00000	1816
0010	0166	32688		2617	14538	0018	00001	1856
0020	0168	32692		2617	14540	0037	00004	1854
0030	0168	32696		2617	14542	0056	00009	1851
0050	0174	32712		2618	14548	0093	00024	1843
0075	0223	32994		2637	14578	0137	00052	1665
0100	0238	3324 D		2655	14592	0177	00087	1494
0125	0276 B	3364 I		2685	14618	0211	00126	1218
0150	0306 B	3388 I		2701	14638	0240	00167	1069

C-REF-NO 005	YR 1963	DEPTH 88	WAVES 1 3423	AIR T -01.9	VIS 8
CONS. NO 123	MONTH 10	MXSAMPC 01	WAVES 2 34X1	WET B -02.6	STN
LAT 66-450N	DAY 16	NO.DPTH 6	WND-DIR 340	WW-CODE 15	
LON 55-000W	HR 12.2	W-COLOR	WND-SPD 12	CLD-TPE 8	
MARSD SQ 222	C/I 1810	W-TRNSP	BARO 994.7	CLD-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
122	0000	015 B	32092	757	2570	14521
122	0010	0190	32078	745	2566	14540
122	0020	0191	32084	754	2567	14542
122	0029	0201	32212	745	2576	14550
122	0049	0204	32376	739	2589	14557
122	0063	0206	32664	740	2612	14564

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0150 B	32092	757	2570	14521	0000	00000	2298
0010	0190	32078	745	2566	14540	0023	00001	2335
0020	0191	32084	754	2567	14542	0047	00005	2331
0030	0201	3222 B	744	2577	14550	0070	00011	2236
0050	0207	3245 I	738	2595	14559	0113	00028	2069

C-REF-NO 005	YR 1963	DEPTH 831	WAVES 1 3424	AIR T -01.0	VIS 8
CONS. NO 124	MONTH 10	MXSAMPD 04	WAVES 2 31X5	WET 8 -02.0	STN
LAT 64-300N	DAY 17	NO.DPTH 12	WND-DIR 340	WW-CODE 71	
LON 57-000W	HR 01.9	W-COLOR	WND-SPD 16	CLD-TPE 8	
MARSD SQ 222	C/I 1810	W-TRNSP	BARO 994.7	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
025	0000	033 B	33982		2707	14625
025	0010	0320	33936		2704	14622
025	0019	0320	33934		2704	14623
029	0048	0318	33935		2704	14627
029	0072	0277	34172		2727	14617
029	0097	0268	34331		2740	14619
019	0123	0270	34413		2747	14625
019	0163	0320	34585		2756	14656
019	0205	0364	34694		2760	14683
019	0246	0389	34753		2762	14701
019	0334	0426	34870		2768	14733
019	0430	0446	34928		2770	14758

*TIME-DISTANCE CHECK FAILED

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0330 B	33982		2707	14625	0000	00000	1003
0010	0320	33936		2704	14622	0010	00001	1029
0020	0320	33931		2704	14624	0021	00002	1034
0030	0322	3392 D		2702	14626	0031	00005	1048
0050	0315	3395 B		2706	14626	0052	00013	1015
0075	0275	34196		2729	14617	0075	00028	0798
0100	0267	34342		2741	14619	0093	00044	0683
0125	0272	34422		2747	14627	0110	00063	0628
0150	0301	3453 B		2753	14645	0125	00085	0574
0175	0334	34622		2757	14664	0139	00108	0537
0200	0359	34684		2760	14680	0152	00134	0517
0225	0378	34726		2761	14693	0165	00162	0507
0250	0391	34759		2763	14703	0178	00193	0498
0300	0414	34829		2766	14722	0203	00262	0474
0400	0443	34913		2769	14751	0249	00430	0454

C-REF-NO 005	YR 1963	DEPTH 2386	WAVES 1 3436	AIR T -00.8	VIS 8
CONS. NO 125	MONTH 10	MXSAMPD 04	WAVES 2 34X7	WET B -02.5	STN
LAT 62-460N	DAY 17	NO.DPTH 13	WND-DIR 340	WW-CODE 85	
LON 57-000W	HR 15.0	W-COLOR	WND-SPD 22	CLD-TPE 8	
MARSD SQ 222	C/I 1810	W-TRNSP	BARO 997.7	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
155	0000	042 B	34504		2739	14670
155	0009	0422	34467		2736	14672
155	0017	0422	34470		2736	14674
155	0026	0423	34467		2736	14675
155	0043	0422	34465		2736	14678
155	0065	0423	34479		2737	14682
155	0087	0462				
155	0130	0456	34908		2767	14712
150	0170	0463	34951		2770	14722
150	0213	0464	34964		2771	14730
150	0257	0458	34971		2772	14735
150	0346	0443	34971		2774	14743
150	0438	0431	34963		2775	14753

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0420 B	34504		2739	14670	0000	00000	0695
0010	0422	34467		2736	14672	0007	00000	0726
0020	0422	34469		2736	14674	0014	00002	0725
0030	0423	34466		2736	14676	0022	00003	0729
0050	0420	34465		2736	14678	0036	00009	0729
0075	0440	3454 G		2740	14692	0054	00021	0695
0100	0465 B	3470 I		2750	14708	0071	00035	0604
0125	0459	3487 D		2764	14712	0084	00051	0472
0150	0459	3494 B		2770	14717	0096	00067	0423
0175	0463	34954		2770	14723	0106	00085	0422
0200	0464	34962		2771	14728	0117	00105	0419
0225	0463	34966		2771	14731	0128	00128	0417
0250	0459	34970		2772	14734	0138	00154	0413
0300	0451	34973		2773	14739	0159	00212	0408
0400	0436	34969		2774	14749	0200	00360	0405

C-REF-NO 005	YR 1963	DEPTH 401	WAVES 1 3022	AIR T -02.7	VIS 8
CONS. NO 126	MONTH 10	MXSAMPD 03	WAVES 2 2923	WET B -03.5	STN
LAT 62-000N	DAY 19	NO.DPTH 12	WND-DIR 300	WW-CODE 02	
LON 64-000W	HR 22.1	W-COLOR	WND-SPD 14	CLD-TPE 4	
MARSD SQ 223	C/I 1810	W-TRNSP	BARO 1003.6	CLD-AMT 2	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
221	0000	-009 B	32243	816	2594	14413
221	0010	-0107	32180	832	2589	14406
221	0019	-0108	32180	831	2589	14407
221	0029	-0107	32212	827	2592	14409
221	0048	-0142	32826	773	2643	14404
221	0072	-0161	33195	745	2673	14405
221	0096	-0160	33277	741	2680	14410
221	0144	-0151	33462	729	2694	14425
221	0193	-0125	33635	717	2708	14448
221	0242	-0058	33854	684	2723	14490
221	0291	0071	34146	653	2740	14561
221	0320	0152	34336	534	2750	14605

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0090 B	32243	816	2594	14413	0000	00000	2073
0010	-0107	32180	832	2589	14406	0021	00001	2115
0020	-0108	32178	831	2589	14407	0042	00004	2116
0030	-0108	3224 C	825	2594	14409	0063	00010	2068
0050	-0145	32871	769	2646	14404	0100	00024	1572
0075	-0161	3321 B	744	2674	14405	0136	00047	1303
0100	-0160	33292	740	2681	14411	0168	00076	1241
0125	-0156	33388	734	2689	14418	0199	00111	1167
0150	-0149	33482	728	2696	14427	0227	00151	1095
0175	-0138	33570	723	2703	14438	0254	00195	1030
0200	-0119	33663	713	2710	14452	0279	00244	0964
0225	-0087	33771	697	2717	14473	0303	00295	0892
0250	-0039	33898	686	2726	14501	0324	00347	0816
0300	0091	34200	602 C	2743	14572	0361	00452	0663

C-REF-NO 005	YR 1963	DEPTH 429	WAVES 1 3235	AIR T -04.8	VIS 8
CONS. NO 127	MONTH 10	MXSAMPD C3	WAVES 2 34X7	WET B -06.0	STN
LAT 60-300N	DAY 21	NO.DPTH 12	WND-DIR 320	WW-CODE 22	
LON 63-000W	HR 21.1	W-COLOR	WND-SPD 18	CLD-TPE 4	
MARSD SQ 223	C/I 1810	W-TRNSP	BARO 1018.0	CLD-AMT 5	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
215	0000	-005 B	32761	806	2634	14439
215	0008	-0063 B	32753	806	2634	14434
215	0017	-0065	32757	807	2635	14435
215	0025	-0063	32753	812	2634	14437
215	0042	-0063	32754	813	2634	14440
215	0063	-0018	32992	778	2652	14467
215	0084	-0008	33091	762	2659	14477
215	0126	-0020	33321	747	2678	14481
211	0181	0008	33538	742	2694	14506
211	0227	0075	33872	689	2718	14549
211	0273	0144				
211	0320	0279	34565	663	2758	14664

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	-0050 B	32761	806	2634	14439	0000	00000	1689
0010	-0064 B	32754	806	2634	14434	0017	00001	1689
0020	-0064	32756	809	2635	14435	0034	00003	1687
0030	-0064	3274 B	814	2634	14437	0051	00008	1695
0050	-0047	3284 E	801	2640	14450	0085	00022	1629
0075	-0009	3306 B	767	2657	14474	0124	00046	1477
0100	-0012	3318 B	754	2667	14479	0160	00079	1381
0125	-0020	33316	747	2678	14481	0193	00117	1273
0150	-0014	3341 D	748	2685	14489	0224	00161	1203
0175	0002	3351 B	744	2693	14502	0254	00210	1133
0200	0033	3367 B	721	2704	14523	0281	00262	1031
0225	0072	33856	691	2717	14547	0305	00316	0910
0250	0105	3399 G	697 B	2726	14568	0327	00369	0828
0300	0222	3439 C	673	2749	14633	0364	00471	0621

C-REF-NO 005	YR 1963	DEPTH 2834	WAVES 1 2834	AIR T -00.1	VIS 8
CONS. NO 128	MONTH 10	MXSAMPD 04	WAVES 2 28X6	WET B -01.0	STN
LAT 59-440N	DAY 22	NO.DPTH 13	WND-DIR 280	WW-CODE 02	
LON 58-000W	HR 12.1	W-COLOR	WND-SPD 18	CLD-TPE 6	
MARSD SQ 186	C/I 1810	W-TRNSP	BARO 1014.8	CLD-AMT 8	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
128	0000	044 B				
128	0008	0437	34609	705	2746	14680
128	0017	0437	34615	704	2746	14682
128	0025	0438	34609	697	2746	14683
128	0042	0437	34612	701	2746	14686
128	0063	0437	34618	696	2746	14689
128	0085	0439	34622	702	2747	14694
128	0127	0515	34943	656 B	2763	14736
121	0168	0500	34965	661	2767	14737
121	0212	0488				
121	0256	0477				
121	0347	0451	34968	669	2773	14747
121	0441	0428	34959	664	2775	14752

*TIME-DISTANCE CHECK FAILED

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0440 B	3461 C	709 B	2745	14680	0000	00000	0639
0010	0437	34610	704	2746	14680	0006	00000	0633
0020	0437	34613	701	2746	14682	0013	00001	0632
0030	0438	34609	697	2746	14684	0019	00003	0637
0050	0437	34614	699	2746	14687	0032	00008	0634
0075	0436	3461 B	700	2746	14691	0048	00019	0637
0100	0466 C	3473 I	687 B	2752	14709	0063	00032	0583
0125	0511	3493 B	658 B	2762	14734	0077	00048	0490
0150	0512	3497 D	656	2766	14739	0089	00065	0459
0175	0498	34967	662	2767	14738	0100	00084	0451
0200	0491	3497 B	664	2768	14739	0112	00105	0442
0225	0485	3498 B	666	2769	14741	0123	00130	0435
0250	0479	3498 B	667	2770	14742	0134	00156	0430
0300	0464	3498 B	669	2772	14745	0155	00217	0421
0400	0438	3497 B	667	2774	14750	0197	00367	0406

C-REF-NO 005 YR 1963 DEPTH 200 WAVES 1 2723 AIR T 04.6 VIS 8
 CONS. NO 129 MONTH 10 MXSAMPD 01 WAVES 2 28X1 WET B 03.0 STN
 LAT 58-000N DAY 24 NO.DPTH 8 WND-DIR 270 WW-CODE 01
 LON 60-000W HR 00.7 W-COLOR WND-SPD 20 CLD-TPE
 MARSD SQ 187 C/I 1810 W-TRNSP BARO 980.7 CLD-AMT C HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
007	0000	007 B	32876	777 B	2638	14495
007	0009	0024 B	32858	750 B	2639	14476
007	0018	0022 B	32853	770	2639	14476
007	0027	0024 B	32854	770	2639	14479
007	0045	0022 B	32853	763 B	2639	14481
007	0068	0021 B	32860	750 B	2639	14484
007	0091	0020 B	32874	743 B	2640	14488
007	0136	0036 B	33108	770	2658	14506

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0070 B	32876	777 B	2638	14495	0000	00000	1655
0010	0023 B	32857	752 B	2639	14475	0017	00001	1646
0020	0022 B	32853	771	2639	14477	0033	00003	1649
0030	0024 B	32854	769	2639	14479	0050	00008	1648
0050	0022 B	32854	760 B	2639	14481	0083	00021	1647
0075	0020 B	32860	747 B	2639	14485	0124	00048	1641
0100	0023 B	3292 C	747 B	2644	14491	0165	00084	1596
0125	0031 B	3304 B	760	2653	14501	0204	00129	1509

C-REF-NO 005	YR 1963	DEPTH 173	WAVES 1 3233	AIR T 01.3	VIS 8
CONS. NO 130	MONTH 10	MXSAMPD 01	WAVES 2 33X2	WET B -00.1	STN
LAT 55-000N	DAY 25	NO.DPTH 7	WND-DIR 320	WW-CODE 01	
LON 57-000W	HR 00.4	W-COLOR	WND-SPD 15	CLD-TPE	
MARSD SQ 186	C/I 1810	W-TRNSP	BARO 1009.8	CLD-AMT 0	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
004	0000	013 B	32358	777	2593	14515
004	0008	0106 B	32333	777	2592	14505
004	0017	0106 B	32329	777	2592	14507
004	0026	0107 B				
004	0042	0101 B	32402	776	2598	14510
004	0064	0074 B	32639	782 B	2619	14504
004	0085	0058 B	32857	770	2637	14504

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0130 B	32358	777	2593	14515	0000	00000	2084
0010	0105 B	32330	777	2592	14505	0021	00001	2090
0020	0106 B	32329	777	2592	14508	0042	00004	2092
0030	0107 B	3235 B	776	2593	14510	0063	00010	2079
0050	0092 B	3248 B	779	2605	14508	0104	00026	1969
0075	0068 B	3273 D	774	2626	14505	0151	00056	1764

C-REF-NO 005	YR 1963	DEPTH 182	WAVES 1 00XX	AIR T 02.0	VIS B
CONS. NO 131	MONTH 10	MXSAMPD C1	WAVES 2 04X2	WET B 01.0	STN
LAT 53-000N	DAY 25	NO.DPTH 8	WND-DIR 240	WW-CODE 03	
LON 55-000W	HR 14.7	W-COLOR	WND-SPD 02	CLD-TPE 3	
MARSD SQ 186	C/I 1810	W-TRNSP	BARO 1016.8	CLD-AMT 4	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
147	0000	015 B	32685	806	2618	14529
147	0010	0118 B	32666	806	2618	14516
147	0020	0114 B	32658	806	2618	14516
147	0030	0113 B	32660	804	2618	14517
147	0050	0098 B	32709	786	2623	14514
147	0075	-0032 B	32966	731	2650	14462
147	0100	-0026 B	33171	729	2666	14472
147	0150	0015 B	33526	705	2693	14504

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0150 B	32685	806	2618	14529	0000	00000	1848
0010	0118 B	32666	806	2618	14516	0019	00001	1842
0020	0114 B	32658	806	2618	14516	0037	00004	1846
0030	0113 B	32660	804	2618	14517	0056	00009	1844
0050	0098 B	32709	786	2623	14514	0092	00024	1798
0075	-0032 B	32966	731	2650	14462	0134	00050	1536
0100	-0026 B	33171	729	2666	14472	0171	00083	1381
0125	-0050 F	3337 B	702 B	2683	14468	0204	00120	1219
0150	0015 B	33526	705	2693	14504	0233	00162	1129

SECTION IV

Bathithermograms

EXPLANATION OF DATA HEADINGS IN TABLE 2

CON No:		The consecutive BT slide number.
LAT:	}	Position of platform at the time of lowering.
LONG:		
DATE:		
	Day	Day
	Mon	Month
	Yr	Year
GMT:	Hrs	The Greenwich Mean Time at which the BT lowering was made.
	Min	

Table 2 A machine listing of bathythermograph lowerings made by CCGS "Labrador" in the 1963 season.

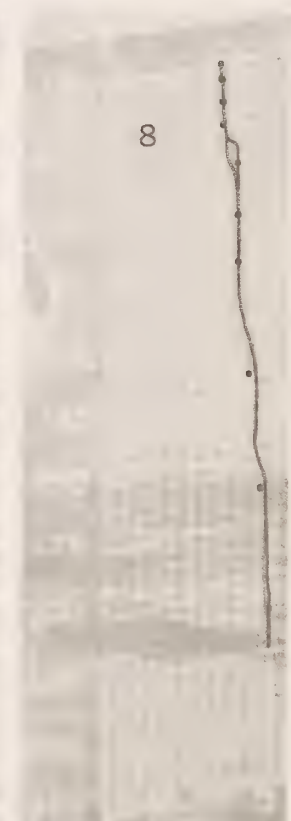
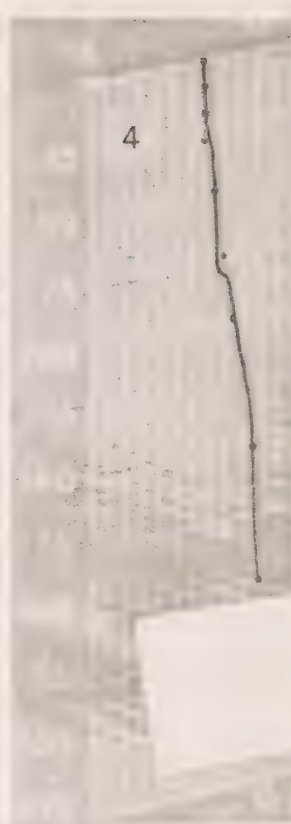
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003	80	59	065	58	16	09	63	14	10
004	80	50	067	10	16	09	63	18	10
005	80	37	067	50	17	09	63	00	01
006	80	12	067	49	17	09	63	19	55
007	80	12	068	20	17	09	63	21	20
008	80	06	069	14	17	09	63	23	21
009	79	50	065	50	18	09	63	11	17
010	79	51	066	46	18	09	63	13	02
011	79	51	068	14	18	09	63	15	20
012	79	49	069	48	18	09	63	17	28
013	79	45	070	33	18	09	63	20	50
014	79	27	070	52	19	09	63	00	25
015	79	33	069	06	19	09	63	03	25
016	79	32	066	50	19	09	63	10	20
017	79	32	065	46	19	09	63	12	55
018	79	03	070	11	20	09	63	01	45
019	79	03	071	16	20	09	63	04	35
020	79	02	073	02	20	09	63	12	55
021	79	01	073	48	20	09	63	16	03
022	78	40	073	38	20	09	63	20	27
023	78	38	073	12	20	09	63	22	20
024	78	36	072	35	21	09	63	04	40
025	78	27	072	58	21	09	63	12	15

CON No	LAT		LONG		DATE			GMT	
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027	78	31	073	58	21	09	63	17	11
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029	78	19	074	50	21	09	63	22	30
030	78	20	074	18	22	09	63	01	45
031	78	21	073	43	22	09	63	03	35
032	78	23	072	54	22	09	63	09	35
033	78	10	073	20	22	09	63	11	55
034	78	11	073	46	22	09	63	13	00
035	78	11	074	15	22	09	63	16	13
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037	78	11	075	20	22	09	63	20	55
038	78	07	075	04	22	09	63	22	20
039	78	05	074	00	23	09	63	00	55
040	77	59	074	10	23	09	63	03	50
041	76	09	079	20	24	09	63	02	02
042	76	12	079	32	24	09	63	03	23
043	76	15	079	46	24	09	63	05	05
044	76	06	081	06	24	09	63	08	45
045	76	01	081	10	24	09	63	10	00
046	75	56	081	12	24	09	63	12	15
047	75	53	081	10	24	09	63	15	48
048	76	02	082	32	24	09	63	19	49
049	76	15	084	02	25	09	63	00	10
051	76	05	084	12	25	09	63	03	28

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056	76	00	087	15	25	09	63	23	30
057	76	10	087	08	26	09	63	02	21
058	76	18	087	12	26	09	63	11	20
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062	75	44	079	26	27	09	63	18	50
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067	77	15	076	30	29	09	63	18	21
068	77	28	075	25	29	09	63	22	25
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073	76	32	071	00	02	10	63	13	50
074	76	27	071	48	02	10	63	15	50
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CON No	LAT		LONG		DATE			GMT	
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094	73	55	075	10	07	10	63	12	50
095	73	46	075	45	07	10	63	15	05
096	73	40	076	17	07	10	63	16	15
097	73	34	076	42	07	10	63	20	20
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CON No	LAT		LONG		DATE			GMT	
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104	74	20	060	00	09	10	63	17	32
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106	72	45	064	40	10	10	63	05	57
107	71	30	069	30	11	10	63	06	00
108	70	30	060	00	12	10	63	07	03
109	70	00	056	00	12	10	63	17	55
110	69	00	060	00	13	10	63	05	22
111	68	45	065	00	13	10	63	17	33
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113	66	30	060	58	14	10	63	22	15
114	66	37	059	57	15	10	63	05	57
115	66	30	059	00	15	10	63	12	31
116	66	30	057	50	15	10	63	20	06
117	66	30	056	40	16	10	63	01	46
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121	64	30	057	00	17	10	63	01	21
122	62	00	064	00	19	10	63	21	45
123	60	30	063	00	21	10	63	20	28
124	59	44	058	00	22	10	63	11	45
125	58	00	060	00	24	10	63	00	30
126	55	00	057	00	25	10	63	00	12
127	53	00	055	00	25	10	63	14	38



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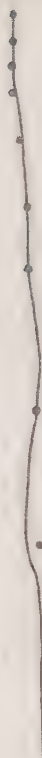
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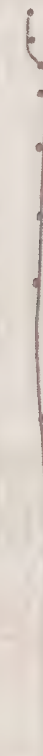
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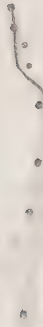
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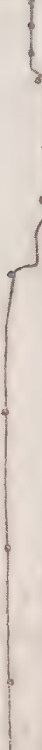
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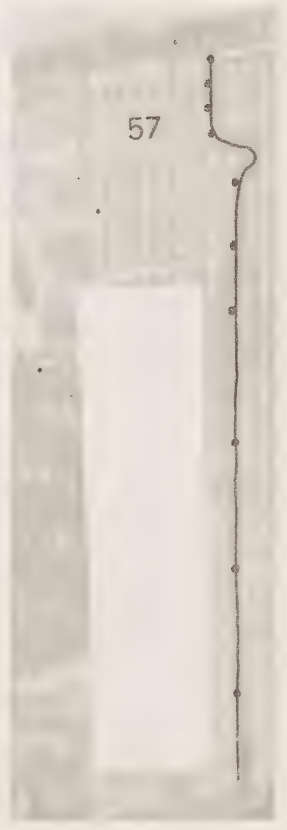
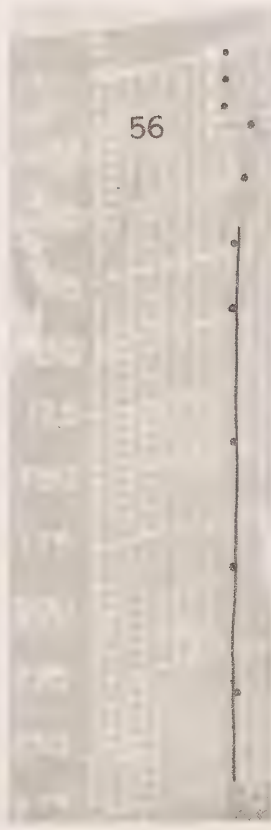
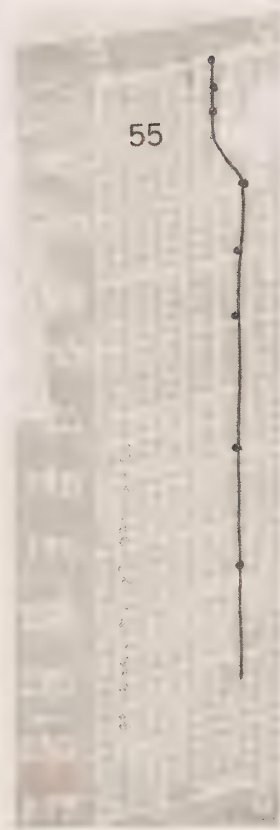


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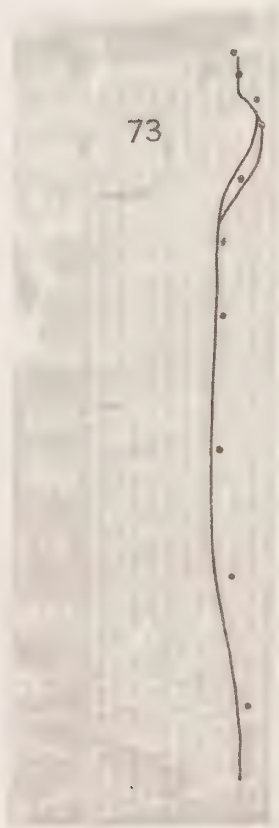
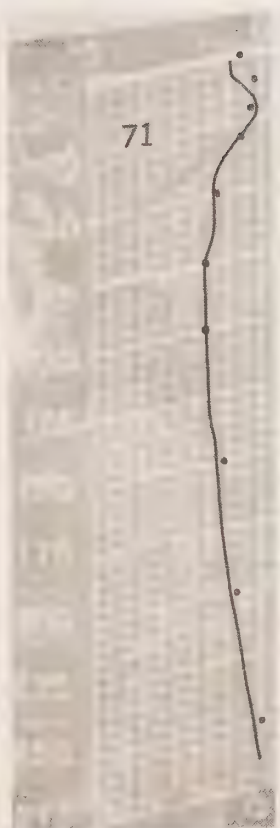
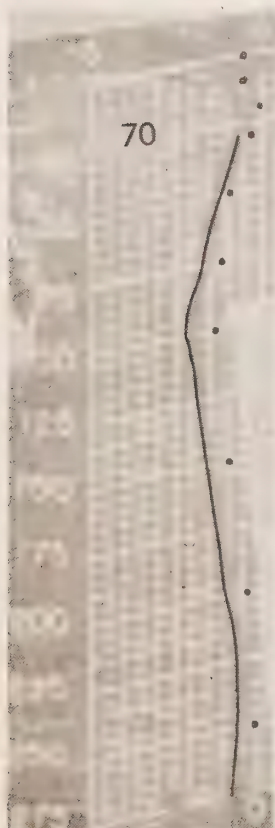
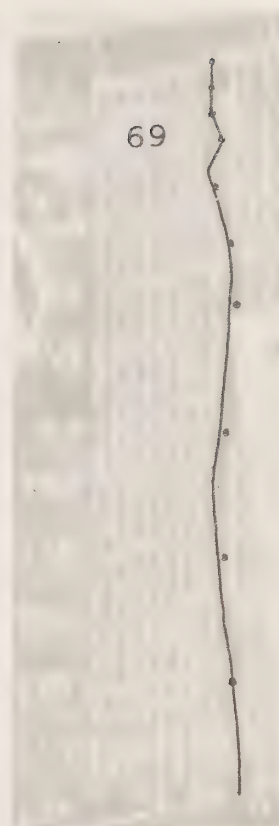
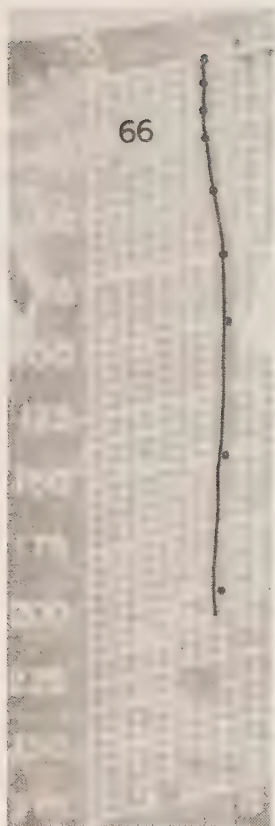


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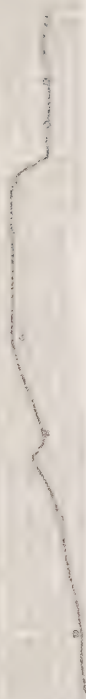




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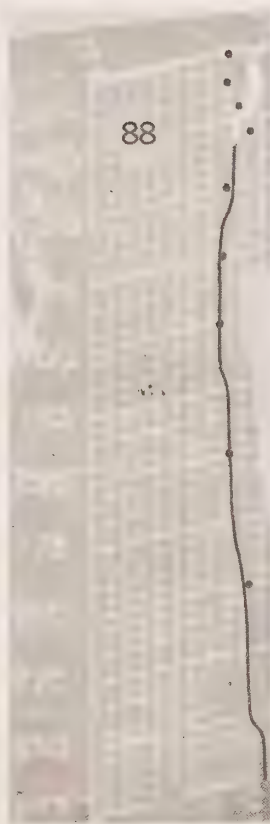
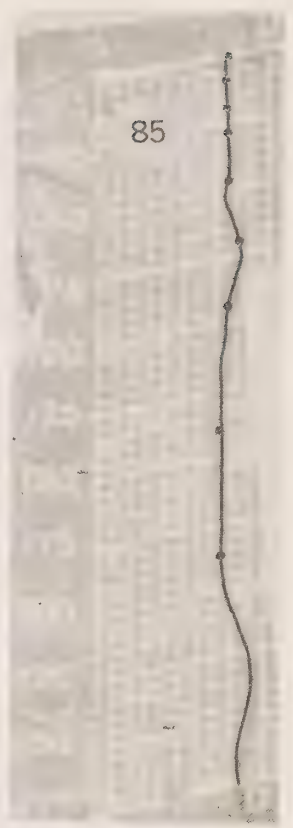
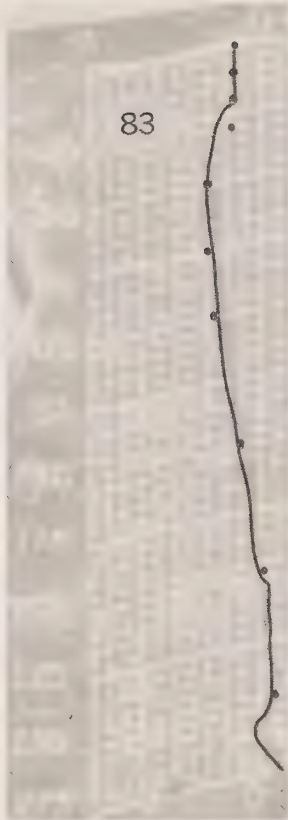
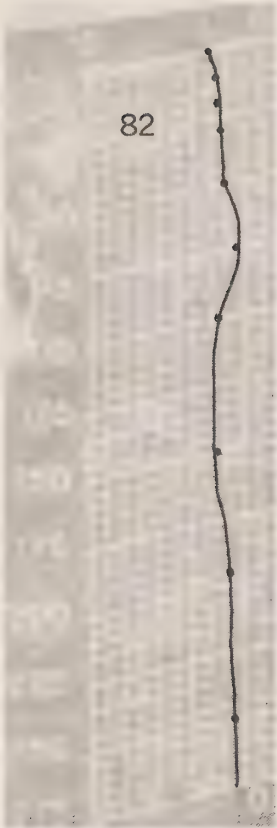


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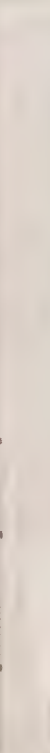
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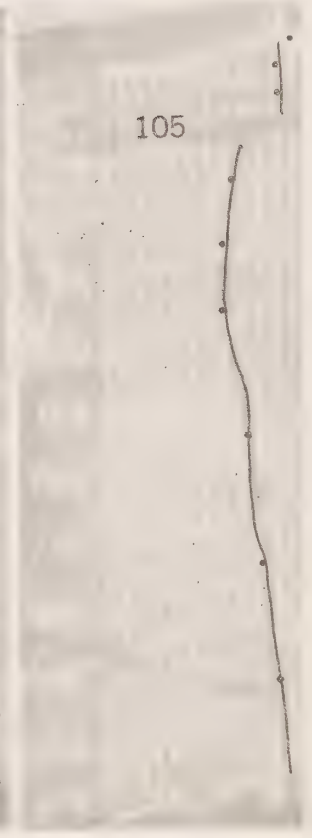
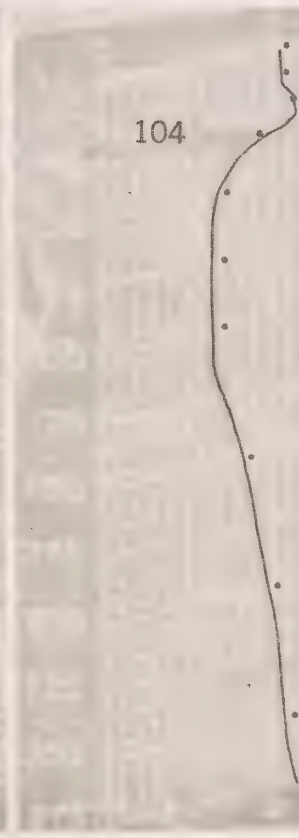
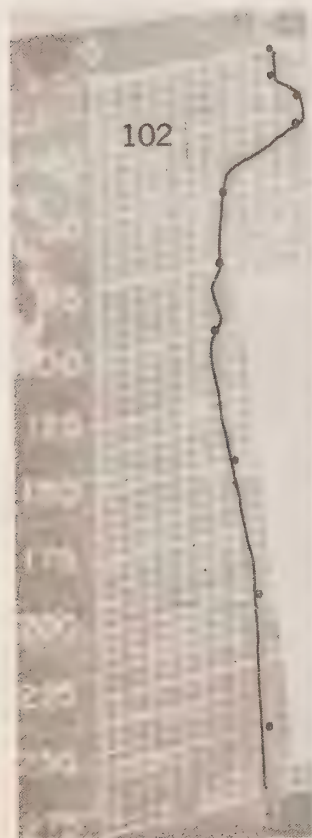
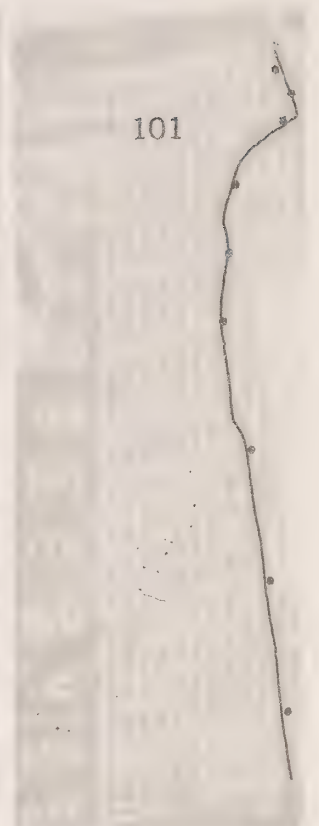
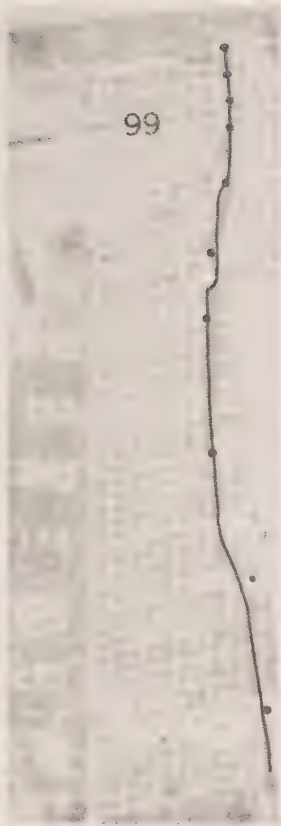
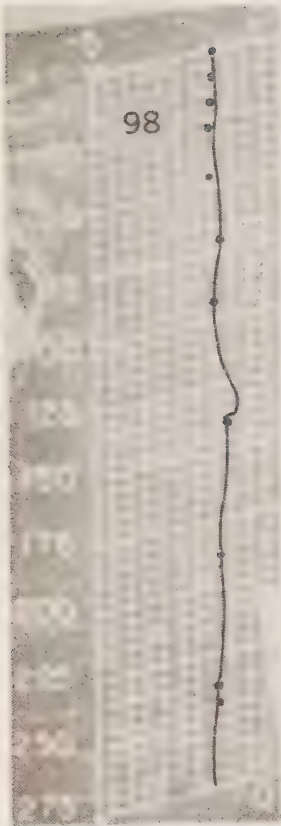


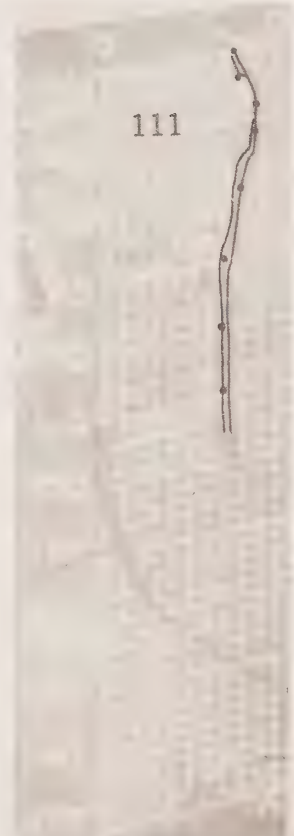
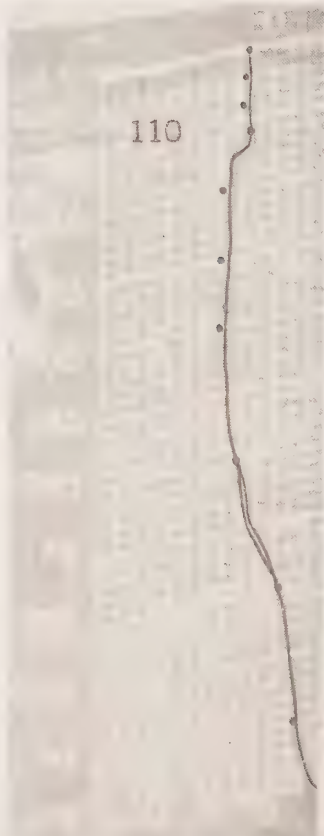
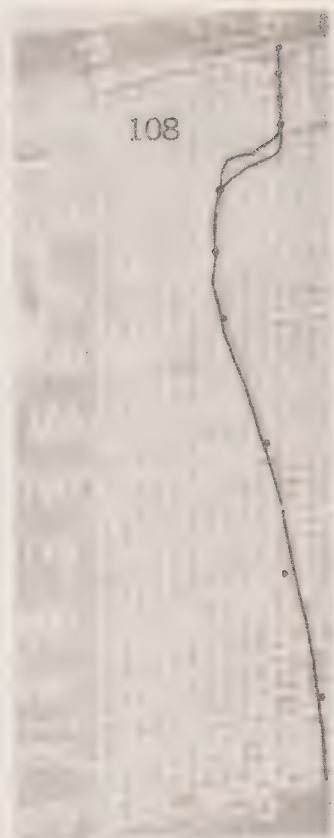
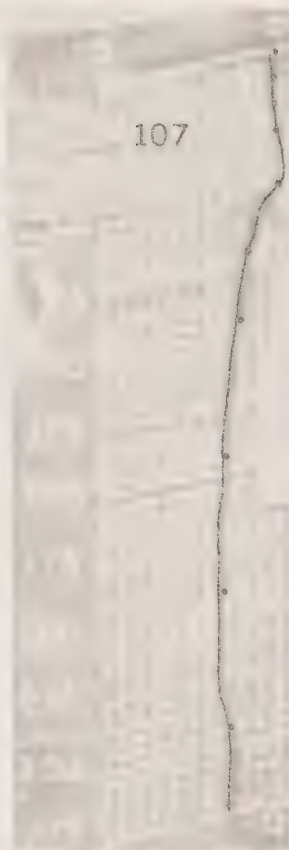
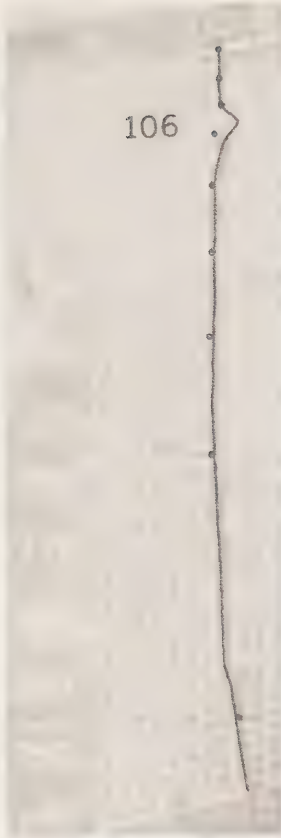
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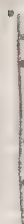
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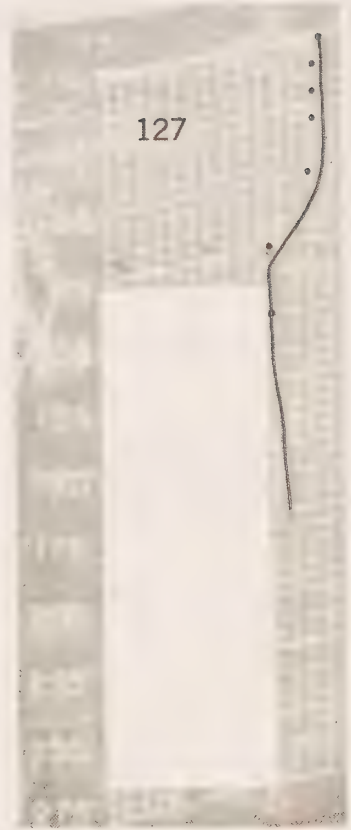
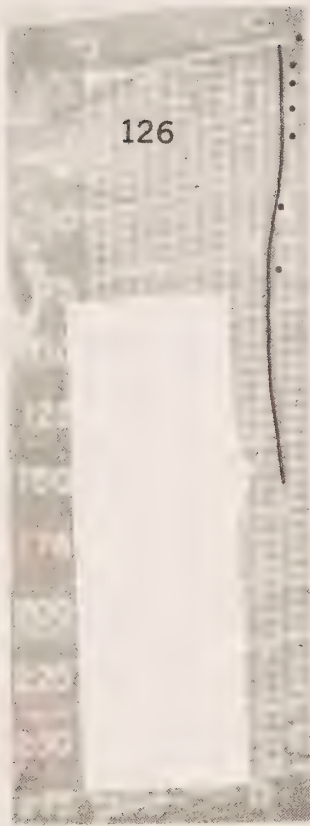


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October 28, 1966 to January 9, 1967

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Ocean Weather Station "P" North Pacific Ocean

Ships:	CCGS "St. Catharines"	CCGS "Stonetown"
Local cruise designations:	P-66-4	Patrol No. 72
Cruise periods:	Oct. 28-Dec. 13, 1966	Dec. 11, 1966-Jan 9, 1967
Scientist-in-Charge:	D.G. Robertson	
Observer:	R.H. Bigham	

Pacific Oceanographic Group, Nanaimo, B.C.

SECTION I

Description of data collection procedures



Figure 1.

The Canadian Weather Ship C.C.G.S. " St. Catharines " . (D.O.T. Photo)

The oceanographic winch is located on the starboard side of the signal deck, just aft of the bridge wing.



Figure 2.

The Canadian Weather Ship C.C.G.S. "Stonetown".

(D.O.T. Photo)

Bathythermograph soundings boom can be seen below the bridge on the signal deck.

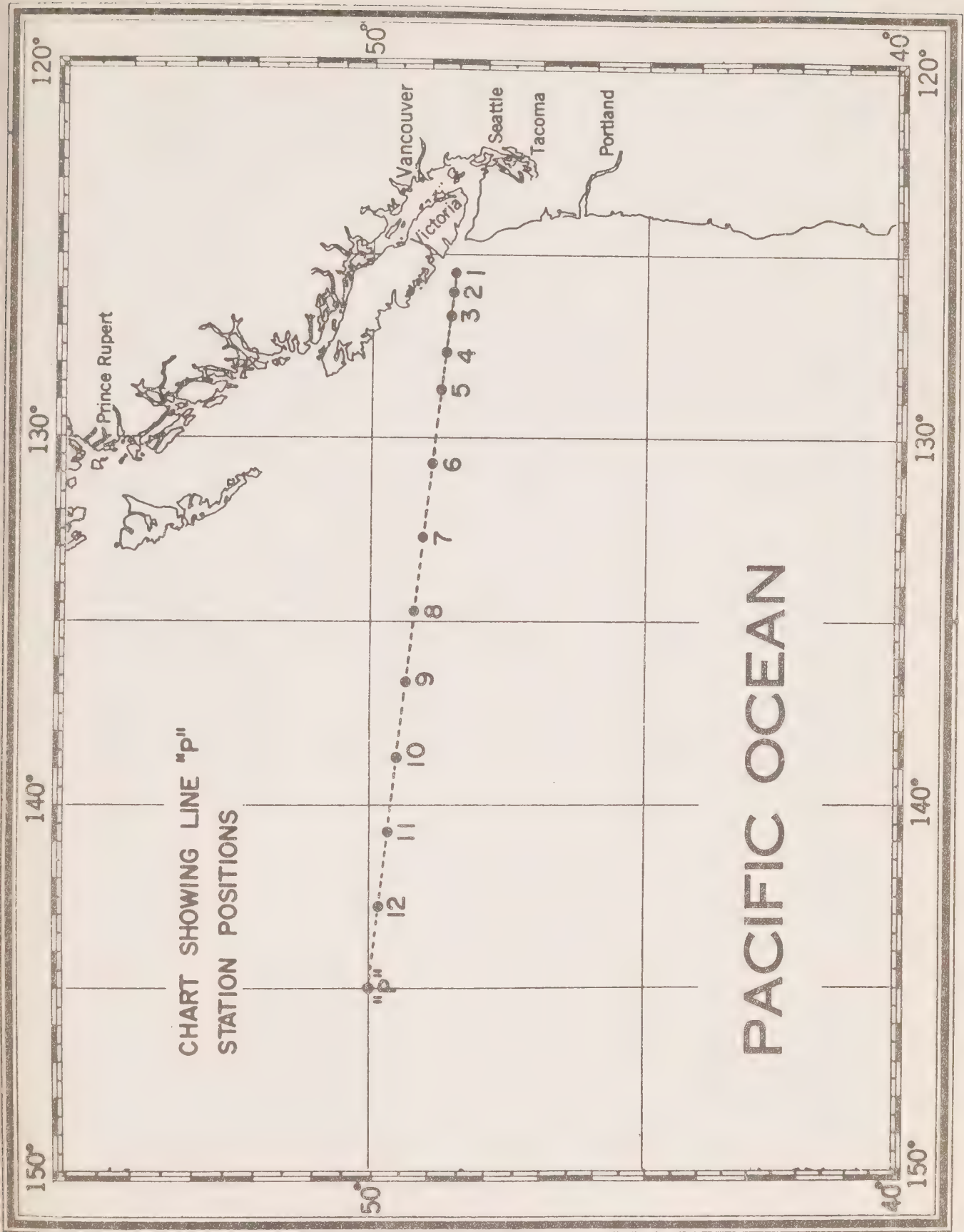


Figure 3.

INTRODUCTION

Canadian operation of Ocean Weather Station "P" (latitude $50^{\circ}00'N$, longitude $145^{\circ}00'W$) was inaugurated in December 1950. The Station is manned by two vessels of the Canadian naval frigate class operated by the Marine Services of the Department of Transport. They are the CCGS "St. Catharines" and the CCGS "Stonetown" (Fig. 1 and 2) (Atlantic Oceanographic Group, MS, 1961). Each ship remains on Station for a period of 6 weeks, and is then relieved by the alternate ship, thus maintaining a continuous watch. The chief purpose of the Station is to operate as a meteorological station for surface and upper-air observations, and as an air-sea rescue station.

The CCGS "St. Catharines" is equipped with deck and laboratory facilities required to make bathythermograph and oceanographic observations. Oceanographers from the Pacific Oceanographic Group accompany the ship on each patrol. The CCGS "Stonetown" is equipped with bathythermograph equipment only. The BT observations on both ships are made by members of the ship's crew.

Bathythermograph observations have been made at Station "P" since July 1952. A program of oceanographic observations was commenced in August 1956, and it has been increased and altered to suit the requirements for new and additional information.

CRUISE LOG, CCGS "ST. CATHARINES, SURVEY P-66-4

- October 28: departed from Esquimalt, B.C.; observed 2 oceanographic stations enroute to Station "P".
- November 4: commenced regular oceanographic station procedure. 10 oceanographic stations were observed during the patrol.
- December 14: relieved by CCGS "Stonetown" and proceeded on return journey to base; no Line "P" stations or BT casts were obtained because of delayed rendezvous.
- December 17: docked at Esquimalt base.

OBSERVATIONAL PROCEDURES

During survey P-66-4, water samples and temperatures were obtained at depth with Nansen water sample bottles equipped with either Richter and Wiese or Yoshino reversing thermometers. Surface samples (0 m) were obtained in a one-gallon plastic bucket. The surface temperature was measured in this bucket with a thermometer graduated in 0.5°C intervals.

Station locations were determined by the officers of the watch, who also make the meteorological observations reported with the oceanographic data.

LABOPATORY PROCEDURES

The salinity determinations of the oceanographic station samples from survey P-66-4, and of the daily surface samples taken in conjunction with the BT observations from both ships, were made with an inductive salinometer, Model 601 MK III, Auto-Lab Industries. Most of the oceanographic station samples were analysed on board "St. Catharines". The salinity data are the means of duplicate determinations, and are considered to have

an accuracy at the 35‰ salinity level of $\pm 0.003\%$. (Brown and Hamon, 1961).

The dissolved oxygen analyses were done in the shipboard laboratory by a modified Winkler method (Strickland and Parsons, 1965). The data are the means of duplicate determinations.

BATHYTHERMOGRAPH OBSERVATIONS

BT observations to 275 m depth were made by "St. Catharines" during survey P-66-4 along the route to Station "P" and every 3 hours whilst on station. The "Stonetown" made BT observations during Patrol No. 72 at Station "P" only.

The data were processed in the BT-aperture card format of the CODC (Sauer, 1964). The bathythermograms presented in Section IV of the data record were reproduced from these BT-aperture cards. The consecutive number entered below each bathythermogram refers to an entry in Table 1 (P-66-4) or Table 2 (Patrol No. 72) which lists the information concerning time/data, position, and associated meteorological conditions.

For survey P-66-4 consecutive BT slide numbers 297, 298, and 299 and for Patrol No. 72, consecutive BT. slide numbers 2,3,4 and 5, the meteorological data have been transferred to the BT-Aperture cards from the No. 9 Marine Data Cards, supplied by the Meteorological Branch of the Department of Transport, Toronto.

PERSONNEL

The scientist-in-charge of the Ocean Station "P" oceanographic program was Mr. D.G. Robertson. The observer during survey P-66-4 was Mr. R.H. Bigham. The BT observers were the ships' crews.

SECTION II

Description of the machine-generated data record

INTRODUCTION

This section applies to the machine processing phase of the data reduction and computation.

The oceanographic data previously recorded on CODC data summary forms, a sample of which is shown on the next page, are transferred to punch-cards for subsequent electronic data processing on an IBM 1620 computer, using CODC's OCEANS II program. In addition to computing routine derived quantities, the program carries out unit and format conversions, range checks, plausibility tests, internal editing, and if required, interpolation at standard oceanographic depths. When interpolations are carried out, additional derived values are computed.

After the data have been processed, the data record is prepared using an IBM 1401 computer configuration with the OCEAN REPORT III program, which provides for pre-edited high speed print-out on continuous direct-image masters. These masters subsequently yield the required volume of copies for distribution.

Provision has been made to enter an "**estimate of precision**" for each observed variable selected for interpolation at standard oceanographic depths. The precision depends on the instrument and/or technique used to determine the variable. A standard precision stated as a **standard deviation** (σ) can be determined for each instrument or technique under routine field conditions by making duplicate determinations of the variables for a homogeneous sample of sea water. These standard deviations are given for each cruise under "GENERAL INFORMATION" in section III of the data record.

The **measurement error estimate** of a specific observation in this data record, is stated as a multiple of the standard deviation derived as above, and entered in a column immediately to the right of the reported variable. In order to distinguish it from an additional decimal digit, the measurement error estimate is recorded alphabetically, (i.e., $1\sigma = A$, $2\sigma = B$, etc.; in this data record "A" is suppressed).

An option is provided with respect to the measurement of the salinity variable. If observed to three decimal digits, the last digit takes the place of the measurement error estimate.

In the past, a number of methods for both manual and machine interpolation have been developed. Studies and comparisons of the several methods have shown that no single method is universally acceptable. The manual methods are the most elaborate and flexible, but often require subjective decisions. In machine interpolation, all the present methods fail to yield acceptable results under some circumstances. Hence, it is considered necessary to qualify interpolated values by stating an "**interpolation error estimate**" derived from the particular interpolation formula used. There are two purposes in stating the error estimates; **first**, to give an indication of the quality of the interpolated data; **second**, to allow the oceanographer to redesign his observational procedures in order to reduce interpolation errors in future observations.

The interpolation scheme chosen for the OCEANS II program consists of a combination of two 3-point interpolations using the Lagrangian interpolation polynomial, as recommended by Rattray (1962). A parabola is fitted through three values of a given variable (T , S , O_2) considered as a function of depth. The two interpolation parabolas require a total of four points (observed depths). The middle points are common to both parabolas. The average of the two values obtained from the parabolas at standard depth is taken as the interpolated value, and a function of their difference as an estimate of the interpolation error.

This function combined with the "**measurement error estimate**" comprises the "**combined measurement and interpolation error estimate**". It is expressed as a multiple of the standard deviation of measurement (σ) under normal routine field conditions by:

CANADIAN OCEANOGRAPHIC DATA CENTRE

1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24																																	
IDENT. CODE		LATITUDE (N = +)		LONGITUDE (W = +)		DATE		TIME		DEPTH		HOURS		DEPTHS		VESSEL		WATER		WAVES I		WAVES II		WIND		DIR.		WET BULB		W.W. CODE		CLOUD		UNASSIGNED		CRUISE REFERENCE NUMBER		CONSEC. NUMBER		OBS'D.																																							
COUNTRY	INST.	DEG.	MIN.	DEG.	MIN.	YEAR	MONTH	DAY	HOURS	MIN.	TO	FROM	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.	NO.																																			
1	8																																																																														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56																								

[illegible]

$$\frac{\sigma_i}{\sigma} = \left\{ \frac{(\Delta V_i)^2}{\sigma^2} + \sum_{n=j-2}^{j+1} (\gamma_n)^2 \left(\frac{\sigma_n}{\sigma} \right)^2 \right\}^{1/2}, \text{ where}$$

σ = Standard deviation of the combined error estimates at standard oceanographic depth,
 ΔV_i = the interpolation error estimate of variable "V" at standard oceanographic depth = $^{1/3} (V_{i_1} - V_{i_2})$
 γ = Interpolation polynomial coefficient.

Z_j = Observed depth.

Z_i = Standard oceanographic depth, such that: $Z_{j-2} < Z_{j-1} < Z_i < Z_j < Z_{j+1}$

The integral part of the fraction $\frac{\sigma_i}{\sigma}$, if ≥ 2 , is reported in this Data Record following the interpolated variable. It represents the combined measurement and interpolation error estimate. In order to distinguish it from an additional decimal digit, it is recorded alphabetically (e.g.: 2 as "B", 3 as "C", etc.).

With respect to the interpolated value of the salinity variable if reported to three decimal digits, the interpolation error estimate is given only when $\frac{\sigma_i}{\sigma} \geq 2$ (the salinity is then recorded to two decimal places). If less than 2, the mean obtained from the two interpolation parabolas is reported to three decimal places.

EXPLANATION OF DATA RECORD HEADINGS

MASTER HEADINGS

(1) C-REF-NO	(6) YR	(11) DEPTH	(16) WAVES 1	(21) AIR T	(26) VIS
(2) CONS. NO	(7) MONTH	(12) MXSAMPD	(17) WAVES 2	(22) WET B	(27) STN
(3) LAT	(8) DAY	(13) NO. DPTH	(18) WND-DIR	(23) WW-CODE	
(4) LON	(9) HR	(14) W-COLOR	(19) WND-FCE	(24) CLD-TPE	
(5) MARSD SQ	(10) C/I	(15) W-TRNSP	(20) BARO	(25) CLD-AMT	(28) HW

(1) CRUISE REFERENCE NUMBER:

Assigned by the Institute. Commences with 001 at the beginning of each year (effective Jan. 1, 1963). Prior to that date the CRN was a number designated by CODC.

(2) CONSECUTIVE NUMBER:

Indicates the chronological order in which the stations were occupied.

(3) LATITUDE:

Indicate the position of the platform at the time of observation.

(4) LONGITUDE:

(5) MARSDEN SQUARE: Designates the geographic area code of the observation (see Marsden square chart),

(6) YEAR:

(7) MONTH:

(8) DAY:

(9) HOUR:

The time (Greenwich Mean Time) at which the surface environmental data were recorded. It is reported to tenths of hours (Table 1).
If an "X" precedes the value for HOUR, (prior to Jan. 1, 1963) it indicates that the reported time is doubtful.

(10) COUNTRY/INSTITUTE:

The International Geophysical Year (IGY) Country Code/Institute Code - see Table 11.

(11) DEPTH:

The sounding reported in metres. If corrected, this is stated in the "GENERAL INFORMATION" chapter of section III. Charted depths are preceded by the letter "C".

(12) MAXIMUM

SAMPLING DEPTH: A code to indicate the deepest sampling depth (used for high speed sorting).

00 m - 50 m = 00

51 m - 150 m = 01

151 m - 250 m = 02

etc.

- (13) **NUMBER OF DEPTHS:** The number of levels observed (this is entered to initiate a computer safety check, guarding against the loss of punch-cards).
- (14) **WATER COLOUR:** A code based on the percentage of yellow (see table 2 and Note under FIELD "15" below).
- (15) **WATER TRANSPARENCY:** The depth in metres at which a Secchi disc (white disc, 30 cm. in diameter) just disappears from view, or the optical density expressed in percentage;
- NOTE:** The "GENERAL INFORMATION" chapter in section III of the data record will state which method was used.
- (16) **WAVES 1**
($d_w d_w P_w H_w$ -code): The direction, period and height of the **wind-propagated** wave system. (See Tables 3, 4 and 5). Ref: World Meteorological Organization Codes 0885, 3155, 1555.
- (17) **WAVES 2**
($d_w d_w P_w H_w$ -code): The direction, period and height of the predominant **non-wind-propagated** wave system. (See Tables 3, 4 and 5). Ref: World Meteorological Organization Codes 0885, 3155, 1555.
- (18) **WIND DIRECTION:** The true direction to the nearest 10 degrees from which the wind is blowing (wind direction 990 means:—wind variable or direction unknown).
- (19) **WIND FORCE**
(WND-FCE): Beaufort notation (See Table 6).
- WIND SPEED**
(WND-SPD): Anemometer reading reported in metres per second. Instrument height reported in "GENERAL INFORMATION" chapter of section III.
- (20) **BAROMETER:** The barometric pressure reported in millibars: the "GENERAL INFORMATION" chapter in Section III of the data record will state the type of instrument used.
- (21) **AIR TEMPERATURE:** In degrees Celsius.
- (22) **WET BULB:** In degrees Celsius.
- (23) **ww CODE:** Present Weather Code (See Table 7). Ref: WMO Code 4677
- (24) **CLOUD TYPE:** The type of predominating clouds (See Table 8). Ref: WMO Code 0500.
- (25) **CLOUD AMOUNT:** The sky coverage in eighths (See Table 9) Ref: WMO Code 2700
- (26) **VISIBILITY:** Visibility at the surface (See Table 10). Ref: WMO Code 4300.
- (27) **STATION:** A station reference number, assigned by the institute prior to, or during the survey.
- (28) **HOURS AFTER HIGH WATER:** Indicates the state of the tide for nearshore observations.

OBSERVED DATA HEADINGS

(1) GMT	(2) DEPTH	(3) TEMP	(4) SAL	(5) OXYGEN	(6) SGMT
(7) SOUND	(8) PO_4	(9) -P-	(10) NO_2	(11) NO_3	(12) SiO_2
				(13) pH.	

NOTE: Headings (1) to (7) will always be present. Headings (8) to (13) appear only when one or more additional chemical entries were made.

(1) G.M.T.: The Greenwich Mean Time of (in-situ) thermometer inversion and sea water sample collection.

When a multiple cast was initiated prior to and continued after midnight, the times indicated are uninterrupted by the change of day and appear beyond 24.0 hours. This will be accompanied by a statement: "MULTIPLE CAST CONTINUED NEXT DAY", which is printed following the last level of observed values.

(2) DEPTH: The depth in metres at the reversal time of deepest cast.

(3) TEMPERATURE: Temperatures from deepsea reversing thermometers, read to 0.01° C. Surface temperature measurement procedures are described in the chapter "OBSERVATION PROCEDURES" of section I, and/or the "GENERAL INFORMATION" chapter of section III. An alphabetical character following the temperature value represents the measurement error estimate referred to in the INTRODUCTION to this section.

(4) SALINITY: Salinity as defined by: $S = 0.03 + 1.805 C1\%$, reported in:
 a. 1/100 parts per 1000, or
 b. 1/1000 parts per 1000.

In case a: an alphabetical character following the value is the measurement error estimate as referred to under (3).

In case b: no error estimate indication is provided for, but an additional decimal digit takes its place.

(5) OXYGEN: The concentration of dissolved oxygen expressed in millilitres per litre to 2 decimal places. An alphabetical character following the value is the measurement error estimate as referred to under (3).

(6) SIGMA-T: The specific gravity anomaly as defined by: $(\text{Specific gravity} - 1) \times 10^3$ (e.g., σ_t reported as 2456, reads 24.56, and corresponds to a specific gravity of 1.02456).

(7) SOUND: The sound velocity is reported in m/sec. to 1 decimal place (e.g., 1437.9 m/sec.). The computation is carried out using Wilson's formula (1960), expressed in terms of temperature, salinity and total pressure.

(8) PO ₄	Phosphate-Phosphorus reported to hundredths of microgram-atoms per litre.
(9) -P-	Total Phosphorus reported to hundredths of microgram-atoms per litre.
(10) NO ₂	Nitrite-Nitrogen reported to hundredths of microgram-atoms per litre — No dissolved nitrogen included —
(11) NO ₃	Nitrate-Nitrogen reported to tenths of microgram-atoms per litre.
(12) SiO ₂	Silicate-Silicon reported in whole microgram-atoms per litre.
(13) pH	The pH value.

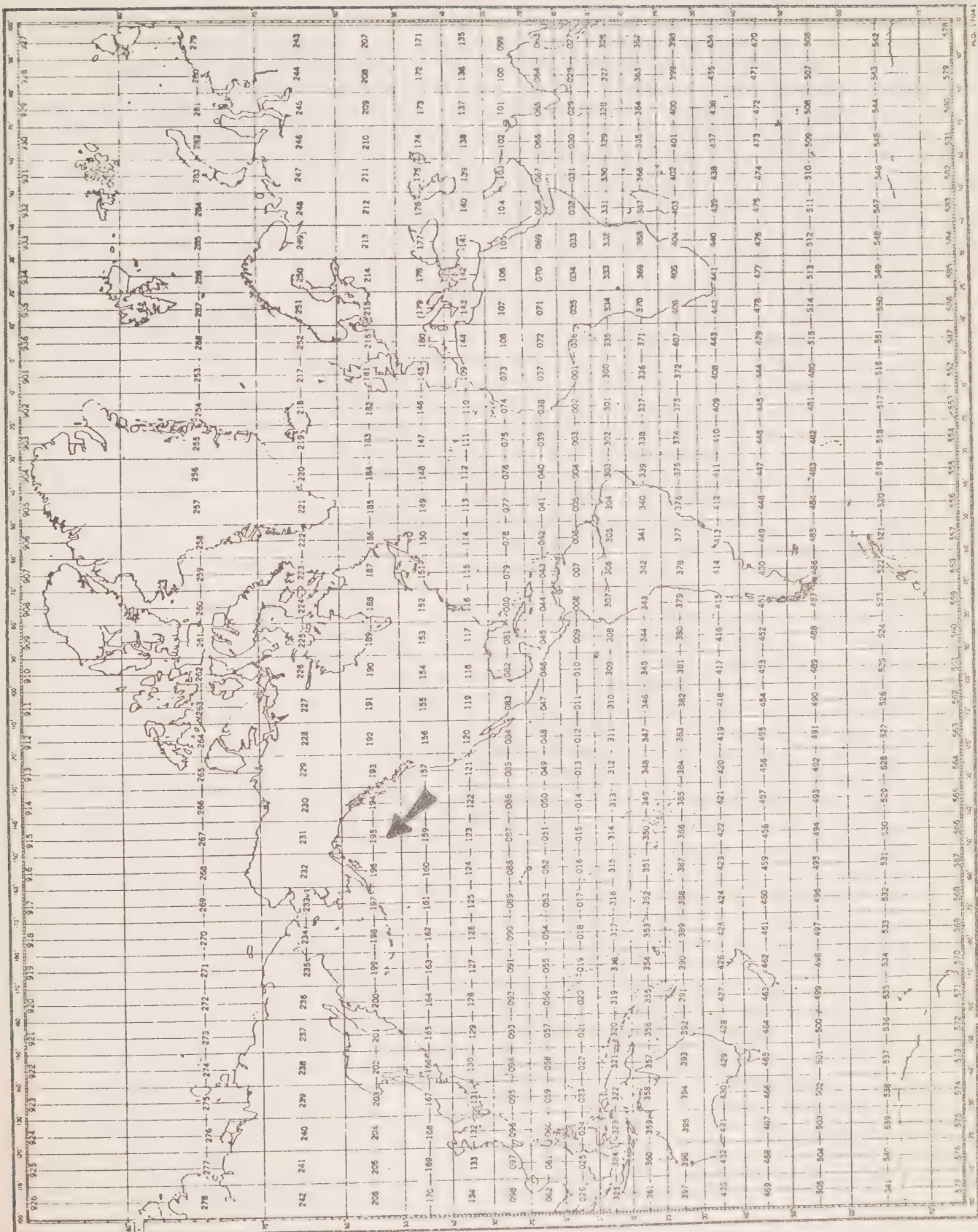
NOTE: "TRC" (trace) is reported when a chemical entry has a value less than the standard deviation of measurement for that particular variable.

INTERPOLATED DATA HEADINGS

(1) DEPTH	(2) TEMP	(3) SAL	(4) OXYGEN	(5) SGMT	(6) SOUND
(7) DELTA-D	(8) POT-EN	(9) SVA.			

- (1) DEPTH: Standard Oceanographic Depth in whole metres, as well as additional depths: 125, 175, 225, 3500, 4500, 5500, 6500, 7500, 8500, 9500.
- (2) TEMPERATURE: Interpolated value at standard depth, followed by the combined measurement and interpolation error estimate (see "INTRODUCTION" to section II of the data record).
- (3) SALINITY:
- A. The reported salinity values are measured to three decimal places.
 - (i) the interpolation error estimate is less than twice the standard deviation of measurement
 - the interpolated value is reported to three decimal places (e.g., 30.139).
 - (ii) the interpolation error estimate is equal to or greater than twice the standard deviation of measurement.
 - the interpolated value is reported to two decimal places, and followed by the interpolation error estimate (e.g., 29.23 C).
 - B. The reported salinity values are measured to two decimal places and followed by the measurement error estimate.
 - the interpolated value is reported to two decimal places, and followed by the combined measurement and interpolation error estimate (e.g., 30.59 B).
- (4) OXYGEN: Interpolated value at standard depth, followed by the combined measurement and interpolation error estimate (see "Introduction" to section II of the data record).

- (5) SIGMA-T: Computed from temperature and salinity values at standard oceanographic depth.
- (6) SOUND VELOCITY: Computed from temperature, salinity and total pressure values at standard oceanographic depth, using Wilson's formula (1960).
- (7) DELTA-D: The geo-potential anomaly as defined by:
- $$\Delta D = \int_0^p \delta dp$$
- ΔD is expressed in dynamic metres (10^5 ergs/gram) and recorded to three decimal places (e.g., 2.345 dyn. metres).
- (8) POTENTIAL ENERGY ANOMALY: The Potential energy anomaly χ as defined by:
- $$\chi = 1/g \int_0^p p \delta dp = \int_0^z \rho p \delta dz$$
- χ is expressed in units of 10^8 ergs/cm² and recorded to two decimal places (e.g., 116.44).
- (9) SPECIFIC VOLUME ANOMALY: The specific volume anomaly as defined by:
- $$\delta = \alpha - \alpha_{35.0.p}$$
- δ is expressed in ml/gr, and conventionally reported as $10^5 \delta$, to one decimal place (i.e., δ reported as 1234, reads 123.4, and corresponds to a specific volume anomaly of 0.001234 ml/gr.).



MARSDEN SQUARE CHART

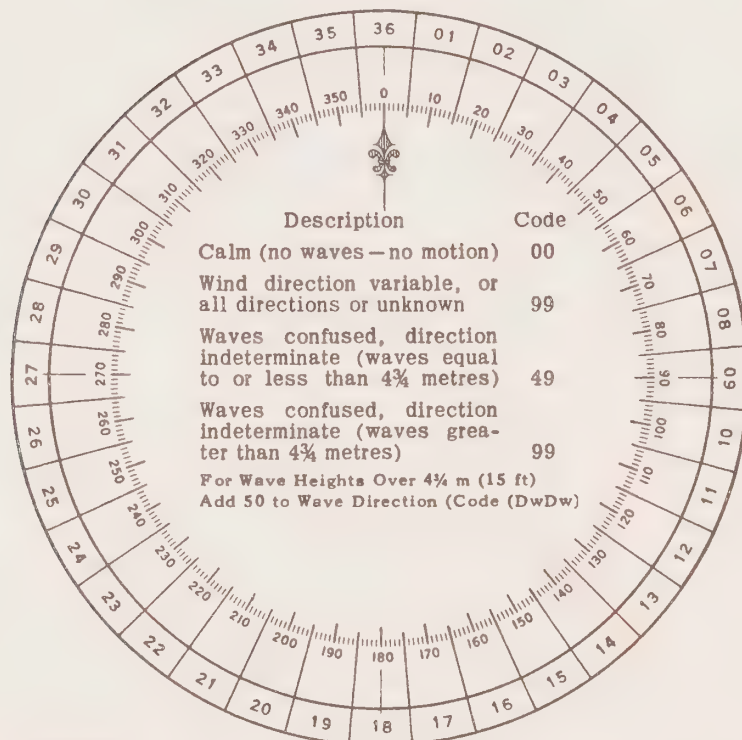
Table 1
CONVERSION
MINUTES TO $\frac{1}{10}$ HRS.

Minutes	Tenths Hrs.
00-03	0
04-08	1
09-15	2
16-20	3
21-27	4
28-32	5
33-39	6
40-44	7
45-51	8
52-56	9
57-59	0 (next HR.)

Table 2
WATER COLOR CODE
Based on Percentage Yellow

Code:	Description
00	Deep Blue
10	Blue
20	Greenish Blue
30	Bluish Green
40	Green
50	Light Green
60	Yellowish Green
70	Yellow Green
80	Green Yellow
90	Greenish Yellow
99	Yellow

Table 3. DIRECTION CODE (dd)



NOTE:

Always use the true direction from which the wind is blowing, or the direction from which Waves I (sea), or Waves II (swell) come.

Table 4. PERIOD OF THE WAVES (Pw)
(Measure to the Nearest Second)

Code:	Period in Seconds:	Code:	Period in Seconds:
2	5 sec. or less	8	16 or 17 sec.
3	6 or 7 sec.	9	18 or 19 sec.
4	8 or 9 sec.	0	20 or 21 sec.
5	10 or 11 sec.	1	Over 21 sec.
6	12 or 13 sec.	X	Calm, or period not determined
7	14 or 15 sec.		

Table 5. HEIGHT OF THE WAVES (Hw)

- The average value of the wave height (vertical distance between trough and crest) is reported, as obtained from the larger well formed waves of the wave system being observed.
- Each code figure provides for reporting a range of heights. For example: 1 = $\frac{1}{4}$ m (1 ft) to $\frac{3}{4}$ m ($2\frac{1}{2}$ ft); 5 = $2\frac{1}{4}$ m (7 ft) to $2\frac{3}{4}$ m (9 ft); 9 = $4\frac{1}{4}$ m ($13\frac{1}{2}$ ft) to $4\frac{3}{4}$ m (15 ft), etc.
- If a wave height comes exactly midway between the heights corresponding to two code figures, the lower code figure is reported; e.g. a height of $2\frac{3}{4}$ m is reported by code figure 5.

Code			Code
0	Less than ¼ m (1 ft)	Add 50 to Dw Dw	0 5 m (16 ft)
1	½ m (1½ ft)		1 5½ m (17½ ft)
2	1 m (3 ft)		2 6 m (19 ft)
3	1½ m (5 ft)		3 6½ m (21 ft)
4	2 m (6½ ft)		4 7 m (22½ ft)
5	2½ m (8 ft)		5 7½ m (24 ft)
6	3 m (9½ ft)		6 8 m (25½ ft)
7	3½ m (11 ft)		7 8½ m (27 ft)
8	4 m (13 ft)		8 9 m (29 ft)
9	4½ m (14 ft)		9 9½ m (30½ ft) or more
x	Height not determined		

Table 6. WIND FORCE CODE

The Beaufort force of the wind is estimated from the appearance of the sea surface, according to the table below. This table is only intended as a guide to show roughly what may be expected on the open sea, remote from land. Factors which must be taken into account are the "lag" effect between the wind increasing and the sea getting up; and the influence of "fetch", depth, swell, heavy rain and tide effect on the appearance of the sea. Estimation of the wind force by this method becomes unreliable in shallow water or when close inshore, owing to the tidal effect and the shelter provided by the land.

Code	Appearance of sea if fetch and duration of the blow have been sufficient to develop the sea fully	Description
00	Sea like a mirror	Calm
01	Ripples with the appearance of scales are formed, but without foam crests,	Light Air
02	Small wavelets; crests have a glassy appearance and do not break.	Light Breeze
03	Large wavelets; crests begin to break; foam of glassy appearance; perhaps scattered white horses.	Gentle Breeze
04	Small waves, becoming longer; fairly frequent white horses.	Moderate breeze
05	Moderate waves; many white horses are formed (chance of some spray)	Fresh Breeze
06	Large waves; white foam crests everywhere (probably some spray)	Strong Breeze
07	Sea heaps up and white foam from breaking waves begins to be blown in streaks along the direction of the wind.	Near Gale
08	Moderately high waves; edges of crests begin to break into the spindrift; foam is blown in well-marked streaks along the direction of the wind.	Gale
09	High waves; dense streaks of foam along wind; crests begin to topple, tumble and roll over; spray may affect visibility.	Strong Gale
10	Very high waves with long overhanging crests; foam in great patches blown in dense white streaks along wind; sea surface takes a white appearance; tumbling becomes heavy and shock-like; visibility affected.	Storm
11	Exceptionally high waves (medium sized ships may be lost to view behind waves); sea covered with long white patches of foam lying along the wind; everywhere edges of crests are blown into froth; visibility affected.	Violent Storm
12	Air is filled with foam and spray; sea completely white with driving spray; visibility seriously affected.	Hurricane

Table 7. PRESENT WEATHER

W.W. CODE

NO PRECIPITATION ON STATION AT TIME OF OBSERVATION

Code figure ww		
No meteors except photometers	00	Cloud development not observed or not observable
	01	Clouds generally dissolving or becoming less developed
	02	State of sky on the whole unchanged
	03	Clouds generally forming or developing
Haze, dust, sand or smoke	04	Visibility reduced by smoke, e.g. veldt or forest fires, industrial smoke or volcanic ashes
	05	Haze
	06	Widespread dust in suspension in the air, not raised by wind at or near the station at the time of observation
	07	Dust or sand raised by wind at or near the station at the time of observation, but no well developed dust whirl(s) or sand whirl(s), and no duststorm or sandstorm seen
	08	Well developed dust whirl(s) or sand whirl(s) seen at or near the station during the preceding hour or at the time of observation, but no dustorm or sandstorm
	09	Duststorm or sandstorm within sight at the time of observation, or at the station during the preceding hour
	10	Mist
	11	{ Patches of } shallow fog or ice fog at the station, whether on land or sea, not deeper than about 2 metres on land or 10 metres at sea
	12	
	13	Lightning visible, no thunder heard
	14	Precipitation within sight, not reaching the ground or the surface of the sea
	15	Precipitation within sight, reaching the ground or the surface of the sea, but distant (i.e. estimated to be more than 5 km) from the station
	16	Precipitation within sight, reaching the ground or the surface of the sea, near to, but not at the station
	17	Thunderstorm, but no precepitation at the time of observation
	18	{ Squalls } at or within sight of the station during the preceding hour
19	Funnel clouds } or at the time of observation	

ww = 20 - 29	Precipitation, fog, ice fog or thunderstorm at the station during the preceding hour but not at the time of observation	{ not falling as shower(s) }
20	Drizzle (not freezing) or snow grains	
21	Rain (not freezing)	
22	Snow	
23	Rain and snow or ice pellets, type (a)	
24	Freezing drizzle or freezing rain	
25	Shower(s) of rain	
26	Shower(s) of snow, or of rain and snow	
27	Shower(s) of hail, or of rain and hail	
28	Fog or ice fog	
29	Thunderstorm (with or without precipitation)	
ww = 30 - 39	Duststorm, sandstorm, drifting or blowing snow	
30	{ Slight or moderate duststorm or sandstorm }	- has decreased during the preceding hour
31		- no appreciable change during the preceding hour
32		- has begun or has increased during the preceding hour
33	{ Severe duststorm or sandstorm }	- has decreased during the preceding hour
34		- no appreciable change during the preceding hour
35		- has begun or has increased during the preceding hour
36	Slight or moderate blowing snow	{ generally low (below eye level) }
37	Heavy drifting snow	
38	Slight or moderate blowing snow	{ generally high (above eye level) }
39	Heavy blowing snow	
ww = 40 - 49	Fog or ice fog at the time of observation	
40	Fog or ice fog at a distance at the time of observation, but not at the station during the preceding hour, the fog or ice fog extending to a level above that of the observer	
41	Fog or ice fog in patches	
42	Fog or ice fog, sky visible	{ has become thinner during the preceding hour }
43	Fog or ice fog, sky invisible	
44	Fog or ice fog, sky visible	{ no appreciable change during the preceding hour }
45	Fog or ice fog, sky invisible	
46	Fog or ice fog, sky visible	{ has begun or has become thicker during the preceding hour }
47	Fog or ice fog, sky invisible	
48	Fog, depositing rime, sky visible	
49	Fog, depositing rime, sky invisible	

NO PRECIPITATION ON STATION AT TIME OF OBSERVATION

PRECIPITATION ON STATION AT TIME OF OBSERVATION

ww = 50 - 59 Drizzle

- | | | |
|----|--|--|
| 50 | Drizzle, not freezing, intermittent | } slight at time of observation |
| 51 | Drizzle, not freezing, continuous | |
| 52 | Drizzle, not freezing, intermittent | } moderate at time of observation |
| 53 | Drizzle, not freezing, continuous | |
| 54 | Drizzle, not freezing, intermittent | } heavy (dense) at time of observation |
| 55 | Drizzle, not freezing, continuous | |
| 56 | Drizzle, freezing, slight | |
| 57 | Drizzle, freezing, moderate or heavy (dense) | |
| 58 | Drizzle and rain, slight | |
| 59 | Drizzle and rain, moderate or heavy | |

ww = 60 - 69 Rain

- | | | |
|----|---|-----------------------------------|
| 60 | Rain, not freezing, intermittent | } slight at time of observation |
| 61 | Rain, not freezing, continuous | |
| 62 | Rain, not freezing, intermittent | } moderate at time of observation |
| 63 | Rain, not freezing, continuous | |
| 64 | Rain, not freezing, intermittent | } heavy at time of observation |
| 65 | Rain, not freezing, continuous | |
| 66 | Rain, freezing, slight | |
| 67 | Rain, freezing, moderate or heavy | |
| 68 | Rain or drizzle and snow, slight | |
| 69 | Rain or drizzle and snow, moderate or heavy | |

70 - 79 Solid precipitation not in showers

- | | | |
|----|---|-----------------------------------|
| ww | | |
| 70 | Intermittent fall of snow flakes | } slight at time of observation |
| 71 | Continuous fall of snow flakes | |
| 72 | Intermittent fall of snow flakes | } moderate at time of observation |
| 73 | Continuous fall of snow flakes | |
| 74 | Intermittent fall of snow flakes | } heavy at time of observation |
| 75 | Continuous fall of snow flakes | |
| 76 | Ice prisms (with or without fog) | |
| 77 | Snow grains (with or without fog) | |
| 78 | Isolated starlike snow crystals (with or without fog) | |
| 79 | Ice pellets, type (a) | |

ww = 80 - 99 Showery precipitation, or precipitation with current or recent thunderstorm

- | | | |
|----|--|---|
| 80 | Rain shower(s), slight | |
| 81 | Rain shower(s), moderate or heavy | |
| 82 | Rain shower(s), violent | |
| 83 | Shower(s) of rain and snow mixed, slight | |
| 84 | Shower(s) of rain and snow mixed, moderate or heavy | |
| 85 | Snow shower(s), slight | |
| 86 | Snow shower(s), moderate or heavy | |
| 87 | Shower(s) of snow pellets or ice pellets, type (b), with or without rain | } - slight |
| 88 | or rain and snow mixed | |
| 89 | Shower(s) of hail, with or without rain or rain and snow mixed, not associated with thunder | } - moderate or heavy |
| 90 | | |
| 91 | Slight rain at time of observation | |
| 92 | Moderate or heavy rain at time of observation | } thunderstorm during the preceding hour but not at time of observation |
| 93 | Slight snow, or rain and snow mixed or hail at time of observation | |
| 94 | Moderate or heavy snow, or rain and snow mixed or hail at time of observation | |
| 95 | Thunderstorm, slight or moderate, without hail, but with rain and/or snow at time of observation | } thunderstorm at time of observation |
| 96 | Thunderstorm, slight or moderate, with hail at time of observation | |
| 97 | Thunderstorm, heavy, without hail, but with rain and/or snow at time of observation | |
| 98 | Thunderstorm, combined with duststorm or sandstorm at time of observation | |
| 99 | Thunderstorm, heavy, with hail at time of observation | |

PRECIPITATION ON STATION AT TIME OF OBSERVATION

Table 8. CLOUD TYPE CODE

Code	Cloud Type	Code	Cloud Type
0	Cirrus Ci	5	Nimbostratus Ns
1	Cirrocumulus Cc	6	Stratocumulus Sc
2	Cirrostratus Cs	7	Stratus St
3	Alto cumulus Ac	8	Cumulus Cu
4	Altostratus As	9	Cumulonimbus Cb
X	Cloud not visible owing to darkness, fog, duststorm, sandstorm, or other analogous phenomena		

Table 9. CLOUD AMOUNT CODE

Code	Cloud Cover	Code	Cloud Cover
0	0	6	6 oktas
1	1 okta or less, but not zero	7	7 oktas or more, but not 8 oktas
2	2 oktas	8	8 oktas
3	3 oktas	9	Sky obscured, or cloud amount cannot be estimated
4	4 oktas		
5	5 oktas		

Note: 1 okta = $\frac{1}{8}$ of the sky covered

Table 10. VISIBILITY

Code	Estimate of hor. Visibility
0	Less than 50 metres (less than 55 yards)
1	50-200 metres (approx. 55-220 yards)
2	200-500 metres (approx. 220-550 yards)
3	500-1,000 metres (approx. 550 yards- $\frac{1}{2}$ n.m.)
4	1-2 km (approx. $\frac{1}{4}$ -1 n.m.)
5	2-4 km (approx. 1-2 n.m.)
6	4-10 km (approx. 2-6 n.m.)
7	10-20 km (approx. 6-12 n.m.)
8	20-50 km (approx. 12-30 n.m.)
9	50 km or more (30 n.m. or more)

Note: n.m. = nautical mile

TABLE 11. INSTITUTE CODE

Code	Institute
01	Atlantic Oceanographic Group
02	Pacific Oceanographic Group
03	Biological Station, St. Andrews, N.B.
04	Arctic Biological Station, Ste. Anne de Bellevue, P.Q.
05	Biological Station, St. John's Nfld.
06	Station de Biologie Marine, Grande Riviere, P.Q.
07	Marine Sciences Branch, Central Region
08	Naval Research Establishment, Dartmouth, N.S.
09	Pacific Naval Laboratory, Esquimalt, B.C.
10	Bedford Institute of Oceanography, (MBS, Atlantic Region)
11	Polar Continental Shelf Project
12	Great Lakes Institute
13	Institute of Oceanography, University of British Columbia
14	Institute of Oceanography, Dalhousie University
15	Marine Sciences Branch, Pacific Region
16	Department of Transport
17	Marine Sciences Centre, McGill University
18	RCN East Coast
19	RCN West Coast
20	Ontario Water Resources Commission
21	Dept. of National Health and Welfare
22	Inland Waters Branch, Dept. of Energy, Mines and Resources.

SECTION III

Serial oceanographic data

GENERAL INFORMATION

<u>Institute:</u>	Pacific Oceanographic Group Nanaimo, B.C.
<u>Observation Platform:</u>	CCGS "St. Catharines"
<u>Vessel's cruising speed:</u>	13 knots
<u>Total number of stations occupied:</u>	12
<u>Anemometer height above sea level:</u>	19 metres
<u>Water transparency:</u>	Secchi Disc
<u>Barometer readings:</u>	Aneroid Barometer (corrected)
<u>Air temperature:</u>	Sling Psychrometer
<u>Wet Bulb temperature:</u>	Sling Psychrometer
<u>Surface sea water temperature:</u>	Bucket sample (deck thermometer)
<u>Depth to bottom:</u>	U.S. Coast & Geodetic Survey Chart 8500

The following Standard Deviations were used to express both measurement and interpolation error estimates.

Temperature	0.02
Salinity	0.003
Oxygen	0.03

C-REF-NO 009 YR 1966 DEPTH C 128 WAVES 1 1023 AIR T 10.8 VIS
 CONS. NO 001 MONTH 10 MXSAMPD 01 WAVES 2 2144 WET B 09.1 STN 001
 LAT 48-33 N DAY 29 NO.DPTH 7 WND-DIR 120 WW-CODE 03
 LON 125-33 W HR 00.7 W-COLOR 10 WND-SPD 09 CLD-TPE 7
 MARSD SQ 157 C/I 1802 W-TRNSP 15 BARO 1020.0 CLD-AMT 8 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
007	0000	092 B	32392		2507	14841
007	0010	0954	32383		2501	14855
007	0020	0956	32383		2500	14857
007	0030	0904	32597		2525	14842
007	0050	0785	33158		2587	14808
007	0075	0734	33510		2622	14797
007	0100	0719	33662		2636	14797

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0920 B	32392		2507	14841	0000	00000	2901
0010	0954	32383		2501	14855	0029	00002	2961
0020	0956	32383		2500	14857	0059	00006	2966
0030	0904	32597		2525	14842	0088	00013	2730
0050	0785	33158		2587	14808	0137	00033	2145
0075	0734	33510		2622	14797	0187	00064	1818
0100	0719	33662		2636	14797	0231	00104	1688

C-REF-NO 009 YR 1966 DEPTH C 109 WAVES 1 1223 AIR T 10.5 VIS
 CONS. NO 002 MONTH 10 MXSAMPD 01 WAVES 2 99XX WET B 09.4 STN 002
 LAT 48-38 N DAY 29 NO.DPTH 7 WND-DIR 120 WW-CODE 02
 LON 126-00 W HR 02.5 W-COLOR WND-SPD 10 CLD-TPE 7
 MARSD SQ 157 C/I 1802 W-TRNSP BARO 1018.0 CLD-AMT 8 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
025	0000	094 B	32203		2489	14846
025	0010	0981	32192		2482	14863
025	0020	0980	32202		2482	14864
025	0029	0920	32491		2515	14847
025	0049	0765	33289		2600	14801
025	0074	0729	33599		2630	14796
025	0098	0718 B	33700		2639	14797

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0940 B	32203		2489	14846	0000	00000	3071
0010	0981	32192		2482	14863	0031	00002	3144
0020	0980	32202		2482	14864	0063	00006	3137
0030	0911	3253 B		2519	14844	0093	00014	2788
0050	0762	3331 B		2603	14801	0141	00033	1999
0075	0704 H	3370 I		2641	14787	0187	00062	1640
0100	0723 B	3368 C		2637	14799	0228	00099	1679

C-REF-NO 009	YR 1966	DEPTH C 4220	WAVES 1 3522	AIR T 07.2	VIS
CONS. NO 003	MONTH 11	MXSAMPD 42	WAVES 2 3533	WET B 05.5	STN 401
LAT 50-02 N	DAY 04	NO.DPTH 26	WND-DIR 350	WW-CODE 01	
LON 144-55 W	HR 19.4	W-COLOR 10	WND-SPD 10	CLD-TPE 7	
MARSD SQ 195	C/I 1802	W-TRNSP 16	BARO 1029.0	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
194	0000	077 B	32530	685	2540	14785
194	0010	0823	32529	685	2532	14808
194	0020	0825	32530	687	2532	14810
194	0030	0824	32534	685	2533	14811
194	0050	0824	32529	697	2532	14814
194	0075	0813	32532	685	2534	14814
194	0100	0454	32755	703	2597	14677
194	0125	0408	32807	706	2606	14663
194	0150	0410	33081	621	2627	14672
194	0175	0400 B	33565	413	2667	14678
194	0200	0370	33663	350	2678	14671
194	0250	0340 D	33745	244	2687	14667
194	0300	0342	33845	161	2695	14678
194	0400	0345	34004	099	2707	14698
194	0500	0345	34104	082	2715	14716
194	0600	0336	34188	090	2723	14729
207	0793	0311	34299	080	2734	14752
207	0992	0285 B	34375	067	2742	14775
207	1190	0260	34443	071	2750	14799
207	1488	0230	34500	085	2757	14837
207	1984	0194	34577	168	2766	14906
207	2482	0174	34615	217	2771	14983
207	2982	0159	34645	282	2774	15063
207	3481	0153	34661	330	2776	15148
207	3981	0148 C	34673	349	2777	15234
207	4181	0152 B	34674	351	2777	15271

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0770 B	32530	685	2540	14785	0000	00000	2585
0010	0823	32529	685	2532	14808	0026	00001	2660
0020	0825	32530	687	2532	14810	0053	00005	2664
0030	0824	32534	685	2533	14811	0080	00012	2661
0050	0824	32529	697	2532	14814	0134	00034	2668
0075	0813	32532	685	2534	14814	0200	00077	2654
0100	0454	32755	703	2597	14677	0260	00129	2052
0125	0408	32807	706	2606	14663	0310	00188	1969
0150	0410	33081	621	2627	14672	0357	00254	1767
0175	0400 B	33565	413	2667	14678	0397	00320	1396

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT. EN	SVA
0200	0370	33663	350	2678	14671	0431	00385	1294
0225	0351 B	3371 C	294	2683	14667	0463	00454	1240
0250	0340 D	33745	244	2687	14667	0494	00529	1207
0300	0342	33845	161	2695	14678	0553	00696	1138
0400	0345	34004	099	2707	14698	0662	01086	1029
0500	0345	34104	082	2715	14716	0763	01549	0961
0600	0336	34188	090	2723	14729	0857	02077	0896
0700	0324	34252	087	2729	14742	0944	02663	0843
0800	0310	34302	079	2734	14753	1027	03302	0798
1000	0284 B	34378	067	2743	14776	1182	04723	0726
1200	0259	34445	071	2750	14800	1322	06306	0660
1500	0229	34502	087	2757	14838	1514	08960	0600
2000	0193	34579	170	2766	14909	1799	14064	0524
2500	0173	34616	219	2771	14986	2058	20039	0490
3000	0159	34646	284	2774	15066	2301	26948	0465
3500	0153	34662	331	2776	15151	2537	34892	0459
4000	0150 B	34672	350	2777	15238	2773	44054	0461

C-REF-NO 009	YR 1936	DEPTH C 4220	WAVES 1 3222	AIR T 07.2	VIS
CONS. NO 004	MONTH 11	MXSAMPD 05	WAVES 2 3223	WET B 05.5	STN 402
LAT 49-56 N	DAY 06	NO.DPTH 15	WND-DIR 320	WW-CODE	
LOX 145-00 W	HR 18.4	W-COLOR 10	WND-SPD 08	CLD-TPE 7	
MARSD SQ 159	C/I 1802	W-TRNSP 17	BARO 1032.0	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
184	0000	078 B	32556	683	2541	14790
184	0009	0814	32544	687	2535	14804
184	0019	0816	32539	685	2534	14806
184	0028	0816	32535	687	2534	14808
184	0047	0815	32535	685	2534	14811
184	0071	0551	32718	689	2583	14712
184	0095	0413	32777	706	2603	14660
184	0119	0424	33042	636	2623	14672
184	0142	0413	33451	491	2656	14677
184	0166	0392 B	33635	378	2673	14674
184	0190	0378	33695	326	2679	14673
184	0238	0348 D	33748	249	2686	14669
184	0285	0345	33837	172	2694	14676
184	0380	0347	33974	111	2705	14695
184	0479	0347	34096	080	2714	14713

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0780 B	32556	683	2541	14790	0000	00000	2579
0010	0815	32543	687	2535	14805	0026	00001	2638
0020	0816	32538	685	2534	14807	0053	00005	2645
0030	0820 B	32532	687	2533	14810	0079	00012	2657
0050	0787 D	3256 B	685	2540	14800	0132	00034	2596
0075	0518	3273 C	694	2588	14700	0192	00071	2141
0100	0410 C	32817	698	2606	14660	0244	00117	1962
0125	0423	3315 D	600	2632	14674	0290	00171	1724
0150	0406	3353 B	448	2664	14676	0330	00226	1424
0175	0386	3367 B	354	2676	14674	0364	00283	1306
0200	0371	3371 B	309	2681	14672	0396	00345	1261
0225	0355 C	3374 B	268	2685	14669	0428	00414	1226
0250	0346 C	33770	228	2688	14670	0458	00488	1194
0300	0345	33861	157	2696	14679	0517	00653	1128
0400	0345 B	3401 B	087 C	2707	14698	0626	01042	1027

C-REF-NO 009	YR 1966	DEPTH C 4220	WAVES 1 0532	AIR T 07.2	VIS
CONS. NO 005	MONTH 11	MXSAMPD 20	WAVES 2 0522	WET B 04.4	STN 403
LAT 49-58 N	DAY 09	NO.DPTH 21	WND-DIR 050	WW-CODE 01	
LON 145-00 W	HR 19.3	W-COLOR 10	WND-SPD 08	CLD-TPE 7	
MARSD SQ 159	C/I 1802	W-TRNSP 16	BARO 1022.0	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
193	0000	076 B	32561	676	2544	14782
193	0010	0808	32543	686	2536	14802
193	0020	0810	32536	674	2535	14804
193	0030	0809	32537	682	2535	14806
193	0050	0809	32537	682	2535	14809
193	0075	0631	32665	692	2569	14745
193	0100	0427	32773	709	2601	14666
193	0125	0423	33032	626	2622	14672
193	0150	0428	33456	482	2655	14684
193	0175	0391 B	33643	367	2674	14675
193	0200	0368	33690	313	2680	14670
193	0250	0341 D	33778	218	2690	14668
193	0300	0344	33852	148	2695	14679
193	0400	0346	33993	101	2706	14698
193	0500	0349	34112	062	2715	14717
200	0594	0338	34181	062	2722	14729
200	0792	0313	34303	060	2734	14753
200	0990	0285	34379	060	2743	14775
200	1188	0257	34440	071	2750	14797
200	1485	0230	34507	077	2757	14836
200	1980	0197	34570	134	2765	14907

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0760 B	32561	676	2544	14782	0000	00000	2548
0010	0808	32543	686	2536	14802	0026	00001	2629
0020	0810	32536	674	2535	14804	0053	00005	2638
0030	0809	32537	682	2535	14806	0079	00012	2638
0050	0809	32537	682	2535	14809	0132	00034	2641
0075	0631	32665	692	2569	14745	0195	00073	2316
0100	0427	32773	709	2601	14666	0249	00122	2012
0125	0423	33032	626	2622	14672	0297	00177	1815
0150	0428	33456	482	2655	14684	0339	00236	1504
0175	0391 B	33643	367	2674	14675	0375	00295	1328
0200	0368	33690	313	2680	14670	0407	00358	1272
0225	0351 B	33735	263	2685	14668	0439	00426	1223
0250	0341 D	33778	218	2690	14668	0469	00500	1183
0300	0344	33852	148	2695	14679	0528	00665	1134
0400	0346	33993	101	2706	14698	0637	01056	1038

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0500	0349	34112	062	2715	14717	0738	01521	0959
0600	0337	34185	062	2722	14730	0832	02050	0900
0700	0325	34251	061	2729	14742	0920	02638	0845
0800	0312	34307	060	2734	14754	1003	03276	0796
1000	0283	34382	060	2743	14776	1157	04692	0722
1200	0256	34443	071	2750	14799	1297	06270	0658
1500	0226	34511	085 B	2758	14837	1487	08896	0590
2000	0196	34571	137	2765	14910	1772	14010	0533

C-REF-NO 009 YR 1966 DEPTH C 4220 WAVES 1 3322 AIR T 06.6 VIS
 CONS. NO 006 MONTH 11 MXSAMPD 05 WAVES 2 XX WET B 04.4 STN 404
 LAT 50-01 N DAY 12 NO.DPTH 16 WND-DIR 330 WW-CODE 01
 LON 145-00 W HR 19.4 W-COLOR 10 WND-SPD 05 CLD-TPE 8
 MARSD SQ 195 C/I 1802 W-TRNSP 12 BARO 1005.0 CLD-AMT 6 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
194	0000	073 B	32567	686	2549	14770
194	0003	0783	32543	689	2539	14791
194	0010	0782	32537	687	2539	14792
194	0020	0784	32536	692	2539	14794
194	0030	0783	32536	688	2539	14796
194	0049	0783	32536	685	2539	14799
194	0074	0782	32536	683	2539	14802
194	0098	0449	32758	703	2598	14675
194	0123	0412	32908	666	2613	14666
194	0148	0418	33379	504	2650	14679
194	0172	0394 B	33624	386	2672	14676
194	0197	0371	33679	328	2679	14671
194	0246	0355	33750	253	2686	14673
194	0296	0347	33833	172	2693	14679
194	0396	0346	33995	104	2706	14697
194	0496	0348	34094	061	2714	14716

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0730 B	32567	686	2549	14770	0000	00000	2504
0010	0782	32537	687	2539	14792	0026	00001	2597
0020	0784	32536	692	2539	14794	0052	00005	2602
0030	0783	32536	688	2539	14796	0078	00012	2602
0050	0786	32534	685	2538	14800	0130	00034	2612
0075	0768 B	32544	684	2541	14797	0196	00075	2583
0100	0439 B	3277 B	703	2599	14671	0254	00127	2030
0125	0412	3294 B	655	2616	14667	0303	00183	1870
0150	0417	33407	492	2653	14679	0346	00243	1529
0175	0391 B	33636	377	2673	14675	0382	00303	1333
0200	0369	33684	323	2679	14671	0415	00366	1278
0225	0359	33722	282	2683	14671	0446	00435	1241
0250	0354	33756	246	2687	14673	0477	00510	1212
0300	0347	33840	168	2694	14680	0537	00678	1146
0400	0343	3399 B	087 C	2706	14697	0647	01071	1036
0500	0348	34097	061	2714	14717	0748	01537	0969

C-REF-NO 009 YR 1966 DEPTH C 4220 WAVES 1 0422 AIR T 06.6 VIS
 CONS. NO 007 MONTH 11 MXSAMPD 06 WAVES 2 0423 WET B 04.4 STN 405
 LAT 50-00 N DAY 18 NO.DPTH 16 WND-DIR 040 WW-CODE 01
 LON 144-55 W HR 19.0 W-COLOR 10 WND-SPD 10 CLD-TPE 3
 MARSD SQ 195 C/I 1802 W-TRNSP BARD 1025.0 CLD-AMT 6 HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
190	0000	070 B	32580	691	2554	14759
190	0010	0751	32546	694	2544	14780
190	0020	0753	32547	685	2544	14782
190	0030	0752	32551	690	2544	14784
190	0050	0752	32553	688	2544	14787
190	0075	0751	32553	687	2545	14791
190	0100	0442 B	32797	688	2602	14673
190	0125	0418	33003	633	2620	14670
190	0150	0418 B	33410	493	2653	14679
190	0175	0386	33631	374	2673	14673
190	0200	0372	33695	319	2680	14672
190	0250	0351	33783	217	2689	14673
190	0300	0347	33853	161	2695	14680
190	0400	0347	33995	085	2706	14698
190	0500	0346	34110	077	2715	14716
190	0600	0333	34210	059	2725	14728

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0700 B	32580	691	2554	14759	0000	00000	2456
0010	0751	32546	694	2544	14780	0025	00001	2549
0020	0753	32547	685	2544	14782	0051	00005	2552
0030	0752	32551	690	2544	14784	0077	00012	2549
0050	0752	32553	688	2544	14787	0128	00033	2551
0075	0751	32553	687	2545	14791	0192	00074	2553
0100	0442 B	32797	688	2602	14673	0249	00125	2009
0125	0418	33003	633	2620	14670	0298	00180	1832
0150	0418 B	33410	493	2653	14679	0340	00239	1528
0175	0386	33631	374	2673	14673	0376	00299	1332
0200	0372	33695	319	2680	14672	0409	00362	1272
0225	0360	33743	264	2685	14672	0440	00431	1226
0250	0351	33783	217	2689	14672	0471	00505	1189
0300	0347	33853	161	2695	14680	0530	00670	1136
0400	0347	33995	085	2706	14698	0639	01062	1037
0500	0346	34110	077	2715	14716	0740	01526	0958
0600	0333	34210	059	2725	14728	0833	02047	0877

C-REF-NO 009	YR 1966	DEPTH C 4220	WAVES 1 0324	AIR T 03.8	VIS
CONS. NO 008	MONTH 11	MXSAMPD 05	WAVES 2 0323	WET B 01.6	STN 406
LAT 50-00 N	DAY 27	NO.DPTH 15	WND-DIR 030	WW-CODE 03	
LON 145-06 W	HR 20.0	W-COLOR 10	WND-SPD 13	CLD-TPE 8	
MARSD SQ 195	C/I 1802	W-TRNSP 16	BARD 1005.0	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
200	0000	073 B	32602	698	2551	14771
200	0009	0717	32566	700	2550	14767
200	0013	0720	32575	696	2551	14769
200	0027	0718		695		
200	0046	0718	32574	700	2551	14773
200	0069	0718	32573	693	2551	14777
200	0092	0720	32572	692	2550	14782
200	0115	0429	32810	695	2604	14670
200	0133	0415 B	33130	595	2631	14672
200	0161	0402	33544	437	2665	14676
200	0184	0398	33687	369	2677	14680
200	0230	0376	33754	287	2684	14679
200	0276	0355		207		
200	0376	0348	33949	121	2702	14694
200	0476	0349	34063	081	2711	14713

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0730 B	32602	698	2551	14771	0000	00000	2478
0010	0717	32566	700	2550	14767	0025	00001	2489
0020	0720	32576	696	2551	14770	0050	00005	2487
0030	0718	32577	696	2551	14771	0075	00012	2485
0050	0718	32574	699	2551	14774	0125	00032	2490
0075	0733 E	3256 C	692	2548	14784	0188	00073	2522
0100	0620 I	3264 B	699 B	2569	14744	0249	00127	2326
0125	0406 F	32938	661	2616	14664	0302	00187	1868
0150	0408	3336 E	511 B	2650	14674	0345	00248	1557
0175	0399	3365 C	389	2674	14679	0381	00308	1330
0200	0391	3373 D	336	2681	14681	0414	00371	1267
0225	0379	3375 B	294	2684	14680	0446	00440	1237
0250	0366	33783	251	2687	14679	0477	00514	1204
0300	0351	33851	179	2694	14681	0536	00681	1141
0400	0341 B	33977	096 B	2705	14696	0646	01075	1044

C-REF-NO 009	YR 1966	DEPTH C 4220	WAVES 1 3623	AIR T 05.5	VIS
CONS. NO 009	MONTH 12	MXSAMPD 19	WAVES 2 3623	WET B 04.4	STN 407
LAT 50-00 N	DAY 01	NO.DPTH 21	WND-DIR 360	WW-CODE 03	
LON 145-00 W	HR 19.3	W-COLOR 10	WND-SPD 10	CLD-TPE 8	
MARSD SQ 195	C/I 1802	W-TRNSP 16	BARO 1007.0	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
193	0000	065 B	32604	701	2562	14739
193	0009	0700	32586	701	2554	14760
193	0018	0702	32587	701	2554	14763
193	0028	0700	32582	701	2554	14763
193	0046	0700	32582	701	2554	14766
193	0070	0699	32583	701	2554	14770
193	0093	0697	32585	701	2554	14773
193	0116	0438	32854	691	2607	14675
193	0139	0447 B	33372	525	2647	14689
193	0163	0415 B	33561	440	2665	14682
193	0187	0390	33688	353	2678	14677
193	0237	0370	33763	271	2686	14678
193	0287	0355 B	33827	196	2692	14681
193	0391	0347	33971	104	2704	14697
193	0491	0349	34089	068	2713	14716
202	0559	0343	34154	058	2719	14725
202	0753	0324	34288	064	2732	14751
202	0939	0297	34365	060	2740	14772
202	1128	0270 B	34429	061	2748	14792
202	1416	0239	34495	073	2756	14828
202	1907	0199		136		

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0650 B	32604	701	2562	14739	0000	00000	2376
0010	0701	32586	701	2554	14761	0024	00001	2455
0020	0702	32586	701	2554	14763	0049	00005	2456
0030	0700	32582	701	2554	14764	0074	00011	2458
0050	0700	32582	701	2554	14767	0123	00032	2461
0075	0710 D	3257 C	701	2552	14775	0185	00072	2484
0100	0618 I	32640	707 B	2569	14743	0246	00126	2322
0125	0428 F	3306 H	630 C	2624	14675	0298	00185	1798
0150	0435 B	3349 D	481 B	2657	14687	0339	00243	1489
0175	0401	33632	395	2672	14679	0375	00302	1347
0200	0382	3372 C	325 B	2681	14677	0408	00365	1263
0225	0373	3376 C	284 B	2685	14677	0439	00433	1228
0250	0366	33780	250	2687	14679	0470	00508	1206
0300	0353 B	33845	181	2694	14682	0529	00676	1148
0400	0347	33983	099	2705	14698	0640	01071	1047

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0500	0348	34098	066	2714	14717	0742	01540	0969
0600	0339	34188	058	2722	14731	0836	02071	0900
0700	0330	34258	060	2729	14744	0924	02659	0845
0800	0318	34310	063	2734	14756	1007	03300	0799
1000	0288	34387	060	2743	14778	1162	04719	0723
1200	0261 B	34449	063	2750	14801	1302	06301	0661
1500	0229 B		081					

C-REF-NO 009	YR 1966	DEPTH C 4220	WAVES 1 0222	AIR T 03.3	VIS
CONS. NO 010	MONTH 12	MXSAMPD 05	WAVES 2 0222	WET B 00.5	STN 408
LAT 49-57 N	DAY 03	NO.DPTH 16	WND-DIR 020	WW-CODE 01	
LON 145-01 W	HR 19.3	W-COLOR 10	WND-SPD 11	CLD-TPE 7	
MARSD SQ 159	C/I 1802	W-TRNSP 15	BARO 995.0	CLD-AMT 4	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
193	0000	062 B	32607	703	2566	14727
193	0003	0681		702		
193	0010	0681	32589	702	2557	14753
193	0019	0684	32590	699	2557	14756
193	0029	0681	32584	699	2557	14756
193	0049	0682	32586	697	2557	14760
193	0073	0682	32585	691	2556	14764
193	0097	0592 D	32713	693	2578	14733
193	0121	0448	32885	678	2608	14680
193	0146	0457 B	33261	569	2637	14693
193	0170	0409 B	33560	434	2665	14681
193	0194	0377	33685	340	2679	14673
193	0243	0361	33781	247	2688	14676
193	0292	0357	33836	185	2693	14683
193	0391	0348	33999	101	2706	14697
193	0494	0349	34105	065	2715	14716

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0620 B	32607	703	2566	14727	0000	00000	2337
0010	0681	32589	702	2557	14753	0024	00001	2426
0020	0684	32589	699	2557	14756	0048	00005	2431
0030	0681	32584	699	2557	14756	0073	00011	2433
0050	0683	32585	697	2556	14760	0122	00031	2437
0075	0677	32592	691	2558	14762	0183	00071	2427
0100	0571 D	32728	694	2582	14725	0241	00123	2201
0125	0446 C	3294 B	665	2613	14681	0293	00182	1907
0150	0450 B	33319	546	2642	14692	0338	00244	1630
0175	0401 B	33595	411	2669	14679	0375	00307	1374
0200	0373	33704	324	2681	14673	0409	00371	1267
0225	0362	3376 B	272 B	2686	14673	0440	00439	1215
0250	0360	33790	237	2689	14676	0470	00513	1193
0300	0356	33849	176	2694	14684	0529	00679	1148
0400	0349	3399 D	095	2706	14699	0640	01074	1043
0500	0349	34112	065	2715	14717	0741	01539	0959

C-REF-NO 009	YR 1966	DEPTH C 4220	WAVES 1 3122	AIR T 04.9	VIS
CONS. NO 011	MONTH 12	MXSAMPD 42	WAVES 2 3122	WET B 02.2	STN 409
LAT 50-00 N	DAY 07	NO.DPTH 26	WND-DIR 310	WW-CODE 00	
LON 144-59 W	HR 19.4	W-COLOR 10	WND-SPD 08	CLD-TPE 8	
MARSD SQ 195	C/I 1802	W-TRNSP 17	BARO 1013.0	CLD-AMT 7	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
194	0000	064 B	32673	697	2569	14736
194	0010	0683	32594	697	2557	14754
194	0019	0684	32593	698	2557	14756
194	0029	0682	32591	695	2557	14757
194	0048	0682	32593	694	2557	14760
194	0073	0682	32593	696	2557	14764
194	0097	0486 B	32758	694	2594	14690
194	0121	0430	33008	633	2620	14674
194	0146	0444	33492	481	2656	14691
194	0170	0412	33657	387	2673	14683
194	0194	0393 B	33707	335	2679	14680
194	0243	0377 B	33770	270	2685	14682
194	0291	0358	33826	201	2692	14683
194	0388	0347	33964	108	2704	14696
194	0488	0349	34087	078	2713	14715
194	0588	0340	34171	052	2721	14729
205	0786	0317	34306	058	2734	14754
205	0982	0288	34383	058	2743	14775
205	1178	0263	34441	064	2749	14798
205	1473	0233	34509	077	2757	14835
205	1968	0195	34577	140	2766	14904
205	2463	0174	34620	198	2771	14980
205	2963	0160	34644	253	2774	15060
205	3464	0154	34673	302	2777	15146
205	3970	0151 B	34684	334	2778	15233
205	4178	0152 B	34679	333	2777	15271

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0640 B	32673	697	2569	14736	0000	00000	2312
0010	0683	32594	697	2557	14754	0024	00001	2425
0020	0684	32593	698	2557	14756	0048	00005	2428
0030	0682	32591	695	2557	14757	0073	00011	2429
0050	0686 B	32590	694	2556	14761	0122	00031	2437
0075	0667 B	32602	697	2560	14758	0183	00070	2407
0100	0473 B	32781	690	2597	14686	0239	00120	2053
0125	0431 B	3309 D	610	2626	14677	0287	00175	1781
0150	0440	3353 B	462	2660	14690	0328	00232	1458
0175	0407	33673	374	2675	14682	0363	00291	1322

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0200	0390 B	33716	326	2680	14680	0396	00354	1274
0225	0381 B	33750	291	2683	14681	0427	00423	1242
0250	0374 B	33778	260	2686	14682	0458	00498	1216
0300	0356	33838	190	2693	14684	0518	00667	1156
0400	0347	33980	103	2705	14698	0629	01064	1048
0500	0348	34098	074	2714	14717	0731	01533	0969
0600	0339	34181	051	2722	14731	0826	02066	0905
0700	0328	34253	051	2729	14743	0914	02656	0846
0800	0315	34313	058	2735	14755	0997	03294	0795
1000	0286	34389	058	2743	14777	1150	04706	0720
1200	0261	34447	065	2750	14801	1290	06284	0661
1500	0231	34514	080	2758	14839	1481	08924	0594
2000	0193	34580	144	2766	14909	1765	13996	0523
2500	0173	34622	202	2771	14986	2021	19931	0485
3000	0159	34646	257	2774	15067	2264	26811	0465
3500	0154	34675	305	2777	15152	2498	34688	0451
4000	0151	34682	332	2778	15239	2731	43730	0456

C-REF-NO 009	YR 1966	DEPTH C 4220	WAVES 1 2522	AIR T 06.1	VIS
CONS. NO 012	MONTH 12	MXSAMPD 05	WAVES 2 2523	WET B 03.8	STN 410
LAT 50-00 N	DAY 13	NO.DPTH 16	WND-DIR 250	WW-CODE 01	
LON 144-58 W	HR 19.3	W-COLOR 10	WND-SPD 16	CLD-TPE 8	
MARSD SQ 195	C/I 1802	W-TRNSP 15	BARO 992.0	CLU-AMT 6	HW

O B S E R V E D

GMT	DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND
193	0000	062 B	32665		2571	14728
193	0003	0670	32596		2559	14748
193	0009	0669	32593		2559	14748
193	0018	0671	32589		2558	14750
193	0028	0670	32589		2558	14752
193	0046	0669	32588		2558	14754
193	0069	0669	32594		2559	14758
193	0093	0671	32593		2559	14763
193	0116	0467	32783		2598	14686
193	0139	0445 B	33008		2618	14684
193	0162	0436	33568		2663	14691
193	0185	0409	33665		2674	14685
193	0232	0371	33746		2684	14678
193	0273	0360	33827		2692	14682
193	0371	0346	33950		2703	14693
193	0464	0349	34056		2711	14711

I N T E R P O L A T E D

DEPTH	T E M P	S A L	OXYGEN	SGMT	SOUND	DELTA-D	POT.EN	SVA
0000	0620 B	32665		2571	14728	0000	00000	2294
0010	0669	32592		2559	14748	0024	00001	2409
0020	0671	32589		2558	14751	0048	00005	2415
0030	0670	32589		2558	14752	0072	00011	2415
0050	0669	32589		2559	14755	0121	00031	2416
0075	0680 D	3259 B		2557	14763	0182	00070	2436
0100	0610 G	3264 B		2570	14740	0242	00124	2313
0125	0447 D	3285 D		2605	14680	0296	00186	1976
0150	0441	3328 I		2640	14687	0341	00249	1646
0175	0422	3365 F		2672	14688	0379	00312	1351
0200	0394	3370 B		2678	14681	0412	00376	1291
0225	0375	33739		2683	14678	0444	00445	1244
0250	0365	33778		2687	14678	0475	00521	1206
0300	0355	33859		2695	14684	0534	00687	1140
0400	0346	33990		2706	14698	0644	01080	1040

SECTION IV

Bathythermograms

EXPLANATION OF DATA HEADINGS IN TABLE 1

CON No: The consecutive BT slide number.

LAT: { Deg
 { Min
LONG: { Position of platform at time of BT lowering.

DATE: Day Day
 Mon Month
 Yr Year

GMT: Hrs The Greenwich Mean Time at which the BT lowering
 Min was made.

DEPTH: Fms Depth to bottom in fathoms, as read from U.S.
 Chart Coast and Geodetic Survey Chart 8500.

BAR: Mbs Barometric pressure; prefix all listed
 values by 10, or by 9 if a minus (-) sign
 is present to obtain the pressure in whole
 millibars.

eg. 02 = 1002 mbs
 17 = 1017 mbs
 -98 = 998 mbs
 -86 = 986 mbs

WW Code: Refer to Table 7, Section II.

WIND Amt: Wind speed in meters per second.

W-1: { P
 { Waves 1 and 2. Refer to Tables 4&5, Section II.
 { H
W-2: {

CLOUD: T Refer to Tables 8&9, Section II.
 A

CCGS "ST. CATHARINES" P-66-2

BATHYTHERMOGRAMS

TABLE 1

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Amt	W 1		W 2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
001	48	33	125	33	29	10	66	00	18	0128	20	03	18	23	44	7	8		
002	48	38	126	00	29	10	66	02	18	0110	18	02	20	23	XX	7	8		
003	48	42	126	40	29	10	66	04	45	1300	18	04	25	23	45	7	9		
004	48	52	129	47	29	10	66	18	30	2601	19	01	27	23	55	7	8		
005	48	32	130	40	29	10	66	22	30	2930	26	02	25	22	57	8	3		
006	48	38	131	40	30	10	66	02	00	2875	24	02	25	22	57	4	3		
007	48	50	132	40	30	10	66	06	15	3275	26	03	25	22	57	3	7		
008	49	08	133	40	30	10	66	09	45	3200	28	61	15	22	45	6	8		
009	49	15	134	30	30	10	66	12	40	3550	27	61	15	22	45	6	8		
010	49	22	135	41	30	10	66	16	00	3200	24	50	10	22	46	7	9		
011	49	26	136	40	30	10	66	19	15	3775	26	02	10	22	45	7	9		
012	49	31	137	40	30	10	66	22	15	3850	24	50	10	22	34	7	8		
013	49	34	138	40	31	10	66	01	30	3890	16	02	10	23	34	7	9		
014	49	38	139	40	31	10	66	04	15	3840	12	60	20	23	34	X	9		
015	49	40	142	42	31	10	66	21	00	3910	09	02	30	23	57	7	7		
016	49	25	144	20	01	11	66	18	15	4221	18	02	21	38	43	6	2		
017	49	30	144	42	01	11	66	21	00	4221	18	03	15	25	43	7	6		
018	49	37	144	56	02	11	66	00	00	4221	15	61	23	34	35	7	8		
019	49	45	145	05	02	11	66	03	00	4221	12	61	34	37	35	7	8		
020	50	05	145	00	02	11	66	06	00	4221	11	61	33	37	XX	7	8		
021	49	55	145	02	02	11	66	09	00	4221	13	21	31	37	XX	7	8		
022	49	49	145	02	02	11	66	12	00	4221	15	61	28	37	XX	7	8		
023	49	48	145	08	02	11	66	15	00	4221	17	61	28	37	XX	7	8		
024	49	45	145	12	02	11	66	18	00	4221	19	21	26	37	34	6	7		
025	49	54	145	00	02	11	66	21	00	4221	20	10	24	37	34	7	8		

TABLE 1

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Aml	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
026	49	56	145	00	03	11	66	00	00	4221	20	02	28	37	34	7	7		
027	49	57	145	02	03	11	66	03	00	4221	21	02	23	23	32	7	8		
028	49	57	145	05	03	11	66	06	00	4221	22	02	27	35	XX	7	8		
029	50	05	145	05	03	11	66	09	00	4221	22	02	26	35	XX	7	8		
030	50	05	144	57	03	11	66	12	00	4221	20	02	23	35	XX	7	8		
031	50	09	144	56	03	11	66	15	00	4221	18	10	24	35	XX	7	8		
032	50	08	144	56	03	11	66	18	00	4221	17	61	36	36	66	7	8		
033	49	55	144	57	03	11	66	21	00	4221	17	61	27	37	45	X	9		
034	49	54	144	59	04	11	66	00	00	4221	16	45	28	37	45	X	9		
035	49	53	145	00	04	11	66	03	00	4221	18	21	18	34	36	6	8		
036	49	57	144	57	04	11	66	06	00	4221	21	10	16	34	XX	6	8		
037	50	04	144	49	04	11	66	09	00	4221	23	10	15	33	XX	6	8		
038	50	02	144	53	04	11	66	12	00	4221	25	10	17	33	XX	6	8		
039	49	58	144	50	04	11	66	15	00	4221	26	02	18	34	XX	6	5		
040	50	02	144	56	04	11	66	18	00	4221	28	15	20	33	32	8	6		
041	49	58	144	53	04	11	66	21	00	4221	29	02	15	33	34	8	6		
042	49	58	144	53	05	11	66	00	00	4221	28	02	12	23	23	4	8		
043	49	55	144	51	05	11	66	03	00	4221	29	02	10	32	XX	4	8		
044	49	56	144	50	05	11	66	06	00	4221	30	02	10	32	XX	4	8		
045	49	59	144	57	05	11	66	09	00	4221	31	02	12	33	XX	4	8		
046	50	00	145	00	05	11	66	12	00	4221	30	02	13	33	XX	5	8		
047	49	58	144	57	05	11	66	18	00	4221	30	02	15	33	XX	5	8		
048	49	58	144	56	05	11	66	18	00	4221	31	02	10	33	54	5	8		
049	49	52	144	55	05	11	66	21	00	4221	31	02	12	22	33	5	8		
050	49	55	144	52	06	11	66	00	00	4221	31	02	09	33	32	5	8		

TABLE 1

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
051	49	52	144	52	06	11	66	03	00	4221	32	02	10	33	XX			5	6
052	49	52	144	47	06	11	66	06	00	4221	32	02	11	33	XX			5	8
053	49	49	144	45	06	11	66	09	00	4221	32	02	10	33	XX			5	8
054	49	46	144	48	06	11	66	12	00	4221	32	02	18	34	XX			5	8
055	49	53	144	54	06	11	66	15	00	4221	31	02	15	33	XX			5	7
056	49	56	145	00	06	11	66	18	00	4221	32	02	09	33	32			5	6
057	49	54	144	58	06	11	66	21	00	4221	31	02	11	32	33			5	4
058	49	57	144	54	07	11	66	00	00	4221	31	02	13	23	33			4	1
059	49	55	144	52	07	11	66	03	00	4221	30	02	09	22	32			0	6
060	49	55	144	52	07	11	66	06	00	4221	31	02	06	22	XX			6	6
061	49	50	144	50	07	11	66	09	00	4221	29	02	08	22	XX			6	6
062	49	54	144	53	07	11	66	12	00	4221	29	02	18	23	XX			6	8
063	50	00	144	56	07	11	66	15	00	4221	27	02	17	34	XX			6	8
064	50	00	144	52	07	11	66	18	00	4221	26	02	22	23	34			6	8
065	49	58	144	50	07	11	66	21	00	4221	25	02	24	24	34			6	8
066	50	02	144	53	08	11	66	00	00	4221	22	02	27	35	34			7	8
067	50	03	144	51	08	11	66	03	00	4221	21	02	30	36	34			6	8
068	49	58	144	58	08	11	66	06	00	4221	19	02	29	37	XX			6	8
069	49	56	144	57	08	11	66	09	00	4221	16	02	26	36	XX			6	8
070	40	00	145	00	08	11	66	12	00	4221	14	51	31	37	XX			7	8
071	50	02	144	52	08	11	66	15	00	4221	14	02	22	24	35			7	8
072	49	55	144	50	08	11	66	18	00	4221	17	61	24	34	35			6	8
073	49	55	144	42	08	11	66	21	00	4221	19	02	21	34	34			6	8
074	49	59	144	58	09	11	66	00	00	4221	20	02	18	24	45			8	8
075	50	00	144	58	09	11	66	03	00	4221	21	02	14	24	45			8	8

TABLE 1

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
076	49	57	144	58	09	11	66	06	00	4221	22	02	15	25	XX			8	8
077	49	55	144	55	09	11	66	09	00	4221	22	02	14	34	XX			8	6
078	49	55	144	55	09	11	66	12	00	4221	21	02	13	34	XX			6	5
079	49	53	144	59	09	11	66	15	00	4221	20	02	16	34	XX			6	7
080	50	00	145	00	09	11	66	18	00	4221	20	02	15	33	75			6	7
081	50	00	145	00	09	11	66	19	00	4221									
082	49	55	145	02	09	11	66	21	00	4221	20	02	13	32	65			6	6
083	49	55	145	02	10	11	66	00	00	4221	18	02	21	33	44			6	7
084	49	54	145	08	10	11	66	03	00	4221	17	02	22	34	43			6	5
085	49	54	145	12	10	11	66	06	00	4221	17	02	21	34	XX			6	5
086	49	53	145	11	10	11	66	09	00	4221	16	02	25	35	XX			6	7
087	49	58	145	05	10	11	66	02	00	4221	14	02	28	36	XX			6	8
088	50	03	145	07	10	11	66	15	00	4221	13	51	22	35	XX			7	8
089	50	04	145	10	10	11	66	18	00	4221	12	51	19	35	45			7	8
090	50	05	145	15	10	11	66	21	00	4221	11	61	14	34	35			7	8
091	50	02	145	10	11	11	66	00	00	4221	10	21	21	24	35			7	6
092	50	01	145	07	11	11	66	03	00	4221	12	61	15	24	XX			7	8
093	50	02	145	00	11	11	66	06	00	4221	12	02	18	24	XX			7	8
094	49	53	144	53	11	11	66	09	00	4221	13	02	17	34	XX			6	8
095	49	58	144	54	11	11	66	12	00	4221	13	02	27	35	XX			8	5
096	49	53	144	51	11	11	66	15	00	4221	14	02	21	35	XX			8	4
097	49	52	144	55	11	11	66	18	00	4221	15	15	28	34	33			8	7
098	50	02	145	00	11	11	66	21	00	4221	15	02	27	35	33			8	6
099	50	15	145	08	12	11	66	00	00	4221	13	02	26	35	XX			8	8
100	50	03	144	54	12	11	66	03	00	4221	12	25	18	34	XX			8	6

TABLE 1

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
101	50	00	144	48	12	11	66	06	00	4221	09	02	17	34	XX			8	4
102	49	59	144	55	12	11	66	09	00	4221	07	02	11	33	XX			8	3
103	50	02	144	55	12	11	66	12	00	4221	05	80	04	20	32			8	8
104	49	56	144	53	12	11	66	15	00	4221	04	02	06	20	32			8	4
105	49	57	144	54	12	11	66	18	00	4221	04	25	07	20	33			8	5
106	50	01	145	00	12	11	66	19	00	4221									
107	50	02	145	00	12	11	66	21	00	4221	04	02	16	32	33			8	3
108	49	58	145	00	13	11	66	00	00	4221	03	03	17	32	32			8	6
109	49	57	145	05	13	11	66	03	00	4221	03	15	20	23	32			8	6
110	49	55	145	04	13	11	66	06	00	4221	04	02	22	34	XX			8	3
111	49	48	145	00	13	11	66	09	00	4221	03	02	26	35	XX			8	3
112	49	51	144	58	13	11	66	12	00	4221	02	02	31	36	XX			8	3
113	49	51	144	57	13	11	66	15	00	4221	61	02	32	38	XX			8	2
114	48	58	145	05	13	11	66	18	00	4221	00	15	33	28	26			8	5
115	50	05	145	03	13	11	66	21	00	4221	-99	02	33	28	26			8	7
116	49	58	145	03	15	11	66	18	00	4221	05	25	17	34	XX			6	8
117	49	55	145	02	15	11	66	21	00	4221	05	15	26	24	56			6	8
118	49	54	145	00	16	11	66	00	00	4221	05	27	28	35	46			8	6
119	50	02	145	00	16	11	66	03	00	4221	07	27	21	35	45			6	8
120	49	56	145	01	16	11	66	06	00	4221	07	25	20	35	XX			6	8
121	49	50	145	06	16	11	66	09	00	4221	08	02	22	35	XX			6	8
122	49	57	145	00	16	11	66	12	00	4221	08	25	32	36	XX			6	8
123	49	51	145	02	16	11	66	15	00	4221	08	02	28	36	XX			6	8
124	49	56	145	02	16	11	66	18	00	4221	09	02	33	37	XX			6	7
125	50	03	145	01	16	11	66	21	00	4221	10	02	32	37	35			6	7

TABLE 1

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
126	50	08	145	05	17	11	66	00	00	4221	11	15	36	28		35		6	8
127	49	57	145	02	17	11	66	03	00	4221	12	02	26	49		XX		6	5
128	49	50	145	02	17	11	66	06	00	4221	14	02	34	48		XX		6	8
129	49	59	144	59	17	11	66	09	00	4221	14	02	31	48		XX		6	5
130	50	05	144	59	17	11	66	15	00	4221	14	80	23	37		XX		8	5
131	50	01	145	01	17	11	66	18	00	4221	16	25	26	23		47		6	7
132	49	59	145	06	17	11	66	21	00	4221	17	15	26	36		44		8	6
133	50	01	145	04	18	11	66	03	00	4221	19	02	30	37		XX		8	8
134	50	14	145	03	18	11	66	06	00	4221	21	02	30	37		XX		6	8
135	50	03	145	08	18	11	66	09	00	4221	21	02	27	37		XX		8	5
136	49	50	145	10	18	11	66	12	00	4221	21	02	26	36		XX		6	5
137	49	54	145	01	18	11	66	15	00	4221	22	02	26	36		XX		6	4
138	50	00	144	57	18	11	66	18	00	4221	23	02	27	36		XX		6	4
139	50	00	144	55	18	11	66	18	30	4221									
140	50	07	144	52	18	11	66	21	00	4221	23	02	25	36		45		6	8
141	50	06	144	47	19	11	66	00	00	4221	23	21	36	26		45		6	7
142	50	09	145	11	21	11	66	06	00	4221	22	02	27	36		XX		6	3
143					21	11	66	09	00	4221	23	02	24	36		XX		6	2
144	49	58	145	03	21	11	66	15	00	4221	24	02	17	34		XX		6	2
145	49	54	145	07	21	11	66	18	00	4221	25	02	20	34		57		6	2
146	49	55	145	05	21	11	66	21	00	4221	27	02	13	33		46		3	2
147	49	53	145	05	22	11	66	00	00	4221	27	02	13	33		44		0	3
148	49	47	145	02	22	11	66	03	00	4221	27	02	09	21		33		0	1
149	49	47	145	00	22	11	66	06	00	4221	27	02	11	22		XX		3	2
150	49	42	145	00	22	11	66	09	00	4221	27	02	13	22		XX		6	6

TABLE 1

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Aml	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
151	49	53	145	02	22	11	66	12	00	4221	24	02	19	23	XX			4	8
152	50	06	144	56	22	11	66	15	00	4221	23	61	22	23	XX			4	8
153	50	05	144	56	22	11	66	18	00	4221	21	10	30	35	XX			7	8
154	49	59	145	03	22	11	66	21	00	4221	20	10	27	37	XX			7	8
155	49	45	145	05	23	11	66	00	00	4221	19	45	27	37	XX			X	9
156	49	48	145	03	23	11	66	03	00	4221	20	28	19	24	36			7	8
157	49	57	145	00	23	11	66	06	00	4221	20	02	14	33	XX			7	8
158	50	00	144	53	23	11	66	09	00	4221	20	02	15	33	XX			7	8
159	50	00	144	49	23	11	66	12	00	4221	18	10	20	22	33			7	8
160	50	02	144	50	23	11	66	15	00	4221	16	51	19	33	XX			7	8
161	50	00	144	55	23	11	66	18	00	4221	13	51	32	35	XX			7	8
162	50	04	144	52	23	11	66	21	00	4221	12	47	30	37	XX			X	9
163	50	04	144	50	24	11	66	00	00	4221	11	28	30	37	XX			7	8
164	50	04	144	54	24	11	66	03	00	4221	11	10	29	37	XX			7	8
165	50	02	144	59	24	11	66	06	00	4221	09	10	28	37	XX			7	8
166	49	53	145	03	24	11	66	09	00	4221	10	61	22	36	XX			7	8
167	49	53	145	09	24	11	66	12	00	4221	11	61	22	36	XX			5	8
168	49	53	144	57	24	11	66	15	00	4221	12	02	16	25	XX			7	8
169	49	53	144	56	24	11	66	18	00	4221	14	02	26	47	34			2	7
170	49	59	144	46	24	11	66	21	00	4221	16	02	26	49	34			4	6
171	49	56	144	50	25	11	66	00	00	4221	17	02	32	49	34			2	7
172	49	57	144	58	25	11	66	03	00	4221	18	02	28	48	33			6	1
173	50	01	145	01	25	11	66	06	00	4221	20	03	33	48	XX			6	4
175	50	02	145	13	25	11	66	15	00	4221	23	02	29	37	XX			6	2
176	50	00	144	56	25	11	66	18	00	4221	24	02	26	38	XX			6	5

TABLE 1

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
177	50	00	145	05	25	11	66	21	00	4221	23	25	33	38	XX	8	2		
178	49	57	145	00	26	11	66	18	00	4221	10	27	21	47	XX	9	4		
179	49	58	145	06	26	11	66	21	00	4221	08	15	24	34	47	9	5		
180	49	57	145	15	27	11	66	00	00	4221	06	27	27	33	47	9	7		
181	50	02	145	18	27	11	66	03	00	4221	06	02	21	33	46	8	5		
182	50	04	144	52	27	11	66	06	00	4221	04	02	11	33	XX	8	5		
183	50	05	145	04	27	11	66	09	00	4221	03	02	13	33	XX	8	6		
184	50	03	145	22	27	11	66	12	00	4221	02	02	10	33	45	8	6		
185	50	06	145	15	27	11	66	15	00	4221	02	02	19	33	45	6	7		
186	50	01	145	04	27	11	66	18	00	4221	02	15	22	33	45	8	8		
187	50	00	145	06	27	11	66	19	30	4221									
188	49	59	145	06	27	11	66	21	00	4221	02	71	21	33	44	6	8		
189	49	56	145	06	28	11	66	00	00	4221	01	15	28	36	44	9	7		
190	49	49	145	13	28	11	66	03	00	4221	03	85	31	37	XX	9	7		
191	49	52	145	17	28	11	66	06	00	4221	05	01	18	44	XX	9	3		
192	49	51	145	20	28	11	66	09	00	4221	06	02	15	33	XX	9	5		
193	49	52	145	17	28	11	66	12	00	4221	06	02	17	33	XX	9	6		
194	49	50	145	16	28	11	66	15	00	4221	06	27	21	34	XX	9	8		
195	49	52	145	01	28	11	66	18	00	4221	06	02	29	36	XX	6	8		
196	49	52	145	08	28	11	66	21	00	4221	05	02	33	39	XX	4	8		
197	50	47	143	36	01	12	66	00	00	4221	04	02	31	49	33	7	7		
198	50	05	144	50	01	12	66	12	00	4221	06	02	24	33	45	6	8		
199	50	02	144	57	01	12	66	15	00	4221	06	80	23	33	44	8	7		
200	50	00	145	01	01	12	66	18	00	4221	05	25	20	33	44	8	7		
201	50	00	145	00	01	12	66	18	45	4221									

TABLE 1

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Aml	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
202	49	58	145	03	01	12	66	21	00	4221	03	02	26	35	44	8	6		
203	49	56	145	02	02	12	66	00	00	4221	01	15	19	35	44	8	7		
204	49	50	145	00	02	12	66	03	00	4221	00	02	21	34	44	8	7		
205	49	47	145	00	02	12	66	06	00	4221	00	02	23	34	44	8	7		
206	49	58	145	03	02	12	66	09	00	4221	-99	02	30	34	44	8	8		
207	50	00	145	00	02	12	66	12	00	4221	-99	02	30	34	44	8	8		
208	50	01	144	59	02	12	66	15	00	4221	00	02	30	35	44	8	6		
209	49	58	145	57	02	12	66	18	00	4221	-99	02	25	34	35	6	7		
210	49	54	144	57	02	12	66	21	00	4221	-96	15	24	34	45	6	7		
211	49	53	144	55	03	12	66	00	00	4221	-93	26	16	34	45	8	6		
212	49	55	144	58	03	12	66	03	00	4221	-92	26	21	34	44	8	6		
213	50	01	145	01	03	12	66	06	00	4221	-91	71	18	34	XX	8	8		
214	49	56	145	01	03	12	66	09	00	4221	-90	71	16	34	XX	8	5		
215	49	55	145	00	03	12	66	12	00	4221	-89	01	13	34	44	8	3		
216	50	05	145	04	03	12	66	15	00	4221	-90	02	00	00	43	8	5		
217	50	07	145	03	03	12	66	18	00	4221	-92	02	04	20	44	6	3		
218	49	57	145	01	03	12	66	18	45	4221									
219	49	55	145	00	03	12	66	21	00	4221	-95	02	15	33	45	4	7		
220	49	58	145	03	04	12	66	00	00	4221	-95	23	29	35	45	6	8		
221	50	04	145	07	04	12	66	03	00	4221	-98	02	39	38	45	6	8		
222	50	03	144	59	05	12	66	03	00	4221	05	02	26	47	XX	6	8		
223	50	02	144	56	05	12	66	06	00	4221	04	02	22	35	XX	6	8		
224	50	00	144	52	05	12	66	09	00	4221	02	02	26	35	XX	6	8		
225	50	00	144	50	05	12	66	12	00	4221	00	02	31	44	46	6	8		
226	49	55	144	50	05	12	66	15	00	4221	19	02	23	44	45	6	8		

TABLE 1

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
227	49	53	144	50	05	12	66	18	00	4221	00	15	31	47	44	6	7		
228	50	10	144	59	06	12	66	03	00	4221	01	02	38	49	XX	8	6		
229	50	00	144	56	06	12	66	06	00	4221	01	02	35	49	XX	6	8		
230	49	55	144	52	06	12	66	09	00	4221	02	02	32	49	XX	6	8		
231	49	45	144	52	07	12	66	00	00	4221	01	02	26	48	46	6	7		
232	49	44	144	50	07	12	66	03	00	4221	02	02	25	46	XX	6	7		
233	49	53	144	50	07	12	66	06	00	4221	04	02	23	45	XX	6	8		
234	50	02	144	57	07	12	66	09	00	4221	05	02	22	34	XX	6	7		
235	50	05	144	56	07	12	66	12	00	4221	06	02	26	34	XX	6	6		
236	49	52	144	53	07	12	66	15	00	4221	08	80	23	34	XX	6	8		
237	49	57	144	47	07	12	66	18	00	4221	10	02	23	34	44	6	7		
238	50	00	144	59	07	12	66	19	00	4221									
239	49	57	144	57	07	12	66	21	00	4221	12	02	16	33	43	6	7		
240	49	50	144	45	08	12	66	00	00	4221	12	02	12	33	44	6	8		
241	49	52	144	52	08	12	66	03	00	4221	12	02	06	21	44	6	8		
242	49	50	144	50	08	12	66	06	00	4221	11	02	10	21	44	6	8		
243	49	45	144	50	08	12	66	09	00	4221	10	02	13	22	XX	6	8		
244	49	45	144	50	08	12	66	12	00	4221	08	02	10	22	XX	6	8		
245	50	00	144	57	08	12	66	15	00	4221	05	02	17	33	XX	6	8		
246	50	03	145	00	08	12	66	18	00	4221	01	02	24	34	43	6	8		
247	50	05	145	05	08	12	66	21	00	4221	-99	02	24	34	43	6	8		
248	50	01	145	02	09	12	66	00	00	4221	-94	02	29	35	XX	6	8		
249	50	07	145	07	09	12	66	03	00	4221	-90	58	24	33	35	7	8		
250	50	12	145	15	09	12	66	06	00	4221	-88	21	30	33	46	7	8		
251	50	07	145	27	09	12	66	09	00	4221	-86	51	26	33	47	7	8		

TABLE 1

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Amf	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
252	50	05	145	16	09	12	66	15	00	4221	-84	02	21	34	46	7	8		
253	49	49	145	23	09	12	66	18	00	4221	-84	02	26	34	44	7	8		
254	49	57	145	10	09	12	66	21	00	4221	-84	02	22	34	44	7	8		
255	49	58	145	05	10	12	66	00	00	4221	-85	10	18	34	44	7	8		
256	49	56	145	07	10	12	66	03	00	4221	-87	45	16	34	44	X	9		
257	49	57	145	13	10	12	66	06	00	4221	-88	45	14	34	44	X	9		
258	49	52	145	13	10	12	66	09	00	4221	-89	45	06	33	44	X	9		
259	49	54	145	20	10	12	66	12	00	4221	-89	45	04	33	44	X	9		
260	49	53	145	20	10	12	66	15	00	4221	-89	02	00	00	XX	7	8		
261	49	49	145	20	10	12	66	18	00	4221	-89	46	05	20	44	7	8		
262	49	58	145	05	10	12	66	21	00	4221	-88	46	06	20	44	7	8		
263	58	07	145	06	11	12	66	00	00	4221	-86	61	12	21	44	7	8		
264	50	10	145	06	11	12	66	03	00	4221	-84	61	00	X0	43	7	8		
265	50	16	145	07	11	12	66	06	00	4221	-82	61	00	X0	43	7	8		
266	50	10	145	05	11	12	66	09	00	4221	-80	61	07	XX	XX	7	8		
267	49	58	145	01	11	12	66	12	00	4221	-78	61	15	22	43	7	8		
268	50	00	144	58	11	12	66	15	00	4221	-77	61	14	33	XX	7	8		
269	50	03	144	54	11	12	66	18	00	4221	-78	21	24	34	43	7	8		
270	50	02	144	47	11	12	66	21	00	4221	-78	02	30	36	XX	7	7		
271	50	00	144	53	12	12	66	00	00	4221	-80	15	36	38	XX	8	6		
272	49	56	144	53	12	12	66	03	00	4221	-83	15	37	49	XX	8	5		
273	49	57	145	00	12	12	66	06	00	4221	-84	25	29	49	XX	8	5		
274	49	57	145	12	12	12	66	09	00	4221	-85	02	22	48	XX	8	6		
275	50	00	145	23	12	12	66	12	00	4221	-85	02	24	47	XX	8	6		
276	50	00	145	04	12	12	66	15	00	4221	-85	01	17	46	XX	8	4		

TABLE 1

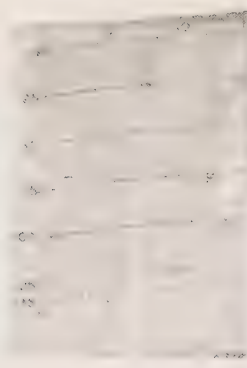
CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
277	50	03	144	58	12	12	66	18	00	4221	-84	25	20	36		46		8	2
278	50	02	145	13	12	12	66	21	00	4221	-84	15	26	37		47		3	7
279	49	57	145	25	13	12	66	00	00	4221	-84	20	25	33		47		6	8
280	50	03	145	05	13	12	66	03	00	4221	-86	25	27	35		46		6	7
281	50	03	144	49	13	12	66	06	00	4221	-88	25	28	35		45		8	8
282	50	03	144	58	13	12	66	09	00	4221	-89	25	28	35		45		8	8
283	50	02	145	08	13	12	66	12	00	4221	-89	02	33	36	XX			8	8
284	50	02	145	09	13	12	66	15	00	4221	-90	01	25	36	XX			8	4
285	50	00	145	05	13	12	66	18	00	4221	-90	02	23	34		46		8	6
286	50	02	144	58	13	12	66	18	50	4221									
287	50	03	145	00	13	12	66	21	00	4221	-88	02	16	32		45		3	7
288	50	00	145	10	14	12	66	00	00	4221	-83	61	17	33		45		7	8
289	49	54	145	20	14	12	66	03	00	4221	-77	61	26	35	XX			7	8
290	50	00	145	04	14	12	66	06	00	4221	-76	61	10	44		34		7	8
291	50	00	145	01	14	12	66	09	00	4221	-80	51	12	21		33		7	8
292	49	57	145	00	14	12	66	12	00	4221	-85	20	12	21		34		7	8
293	50	01	144	55	14	12	66	15	00	4221	-87	01	10	22		43		8	3
294	50	01	144	54	14	12	66	18	00	4221	-90	51	06	21		44		7	7
295	50	03	144	42	14	12	66	21	00	4221	-91	02	08	21		44		6	7
296	50	00	144	10	15	12	66	00	00	4221	-91	02	13	22		44		6	7
297	50	01	144	00	15	12	66	03	00	4221	-96	02	06	61		74		4	7
298	50	02	143	50	15	12	66	06	00	4221	-98	02	06	61		74		4	7
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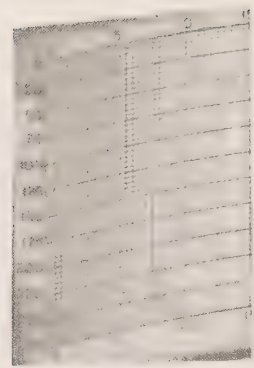
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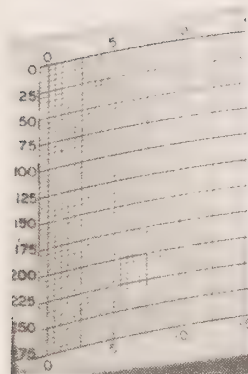
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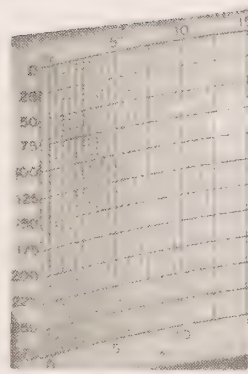
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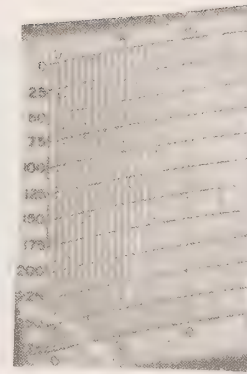
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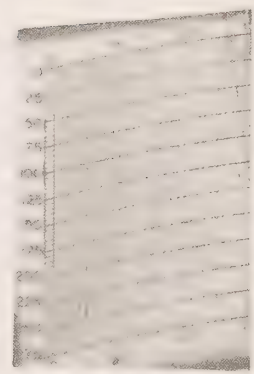
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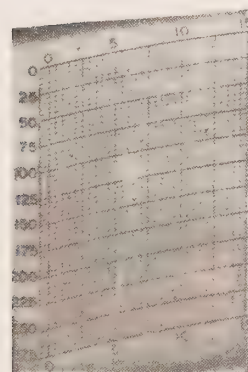
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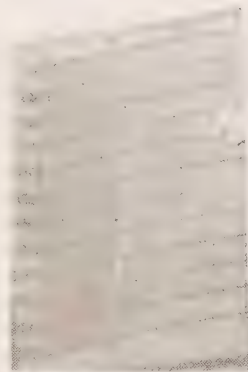
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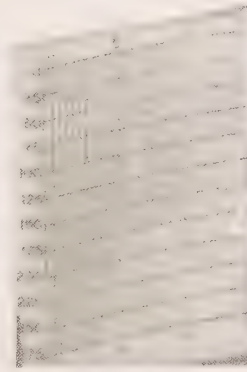
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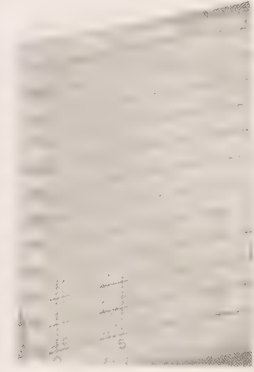
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10



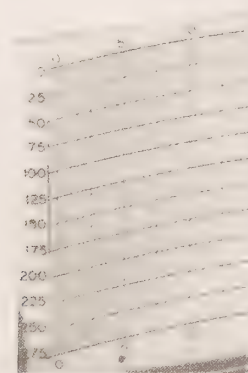
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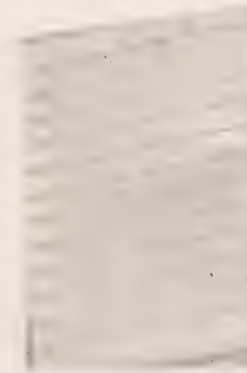
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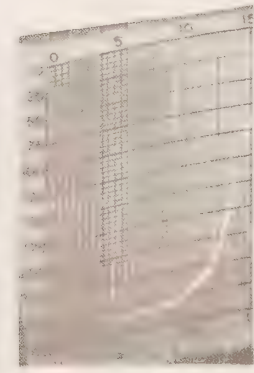
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14



15



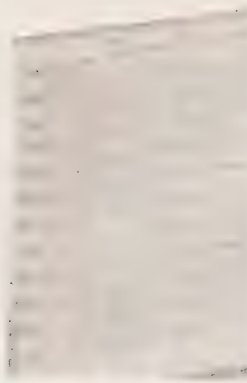
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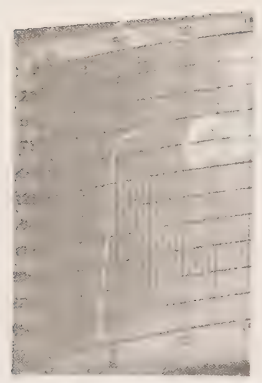
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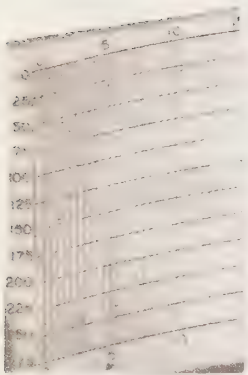
18



19



20



21



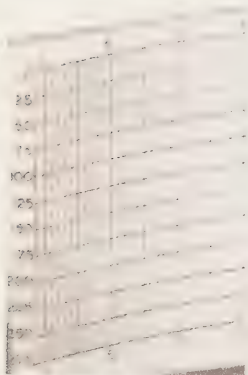
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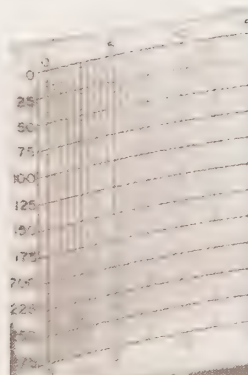
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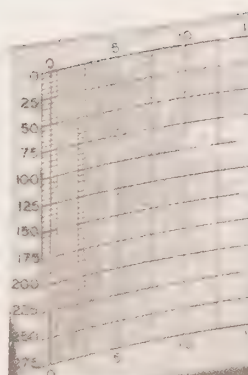
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25



26



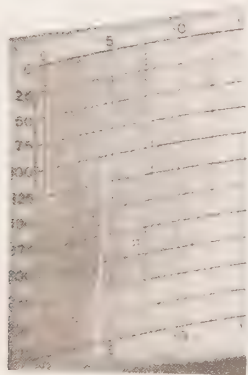
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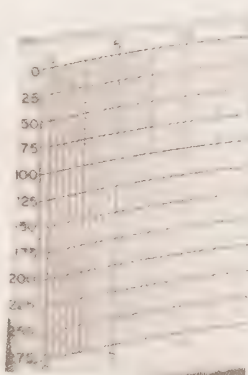
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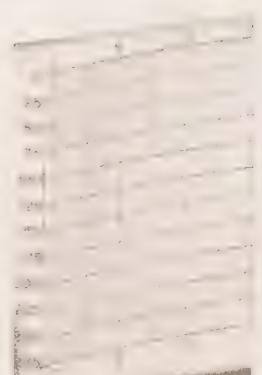
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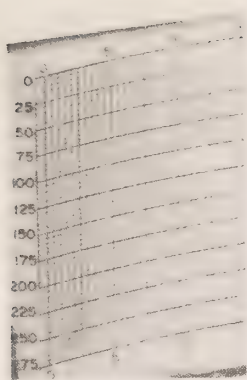
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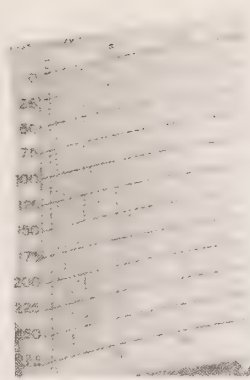
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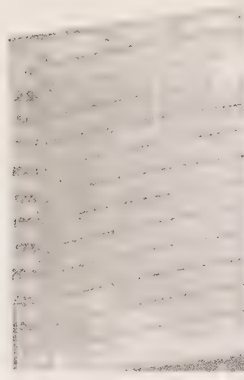
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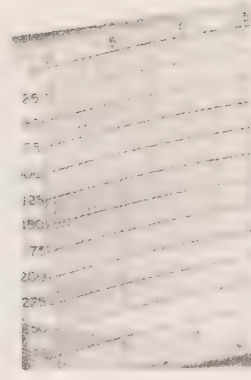
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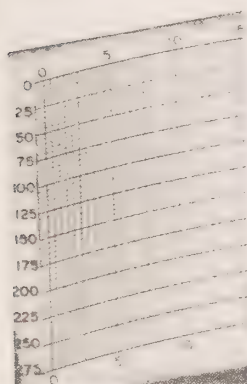
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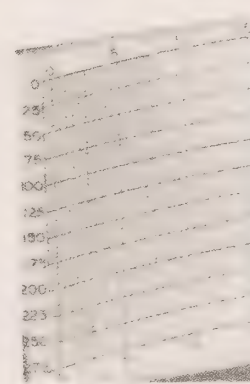
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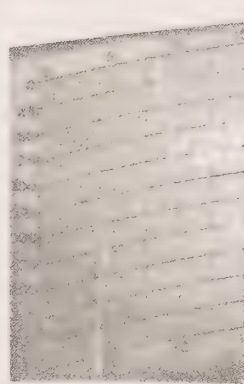
36



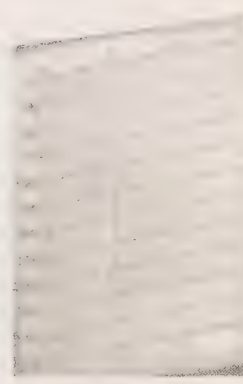
37



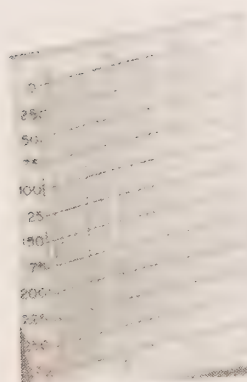
38



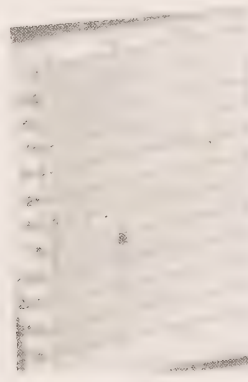
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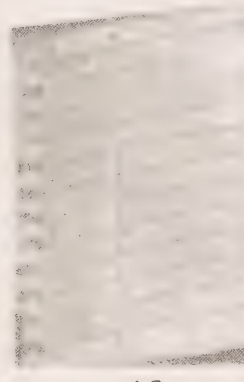
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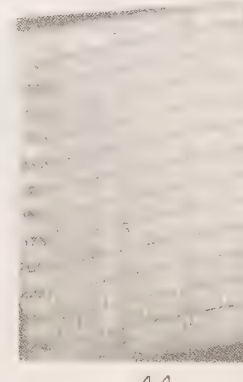
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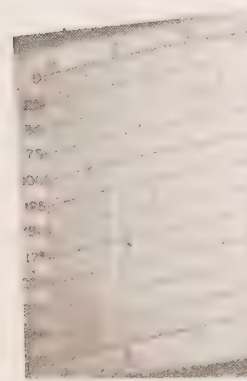
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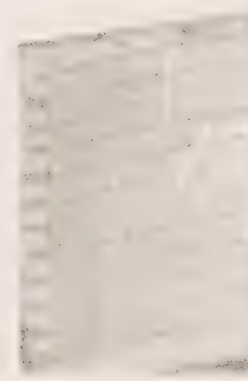
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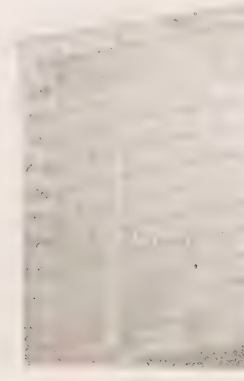
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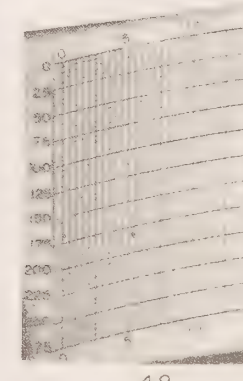
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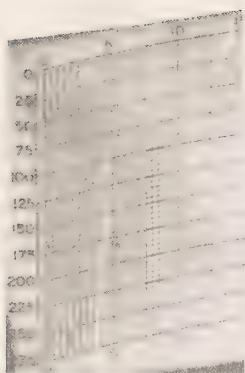
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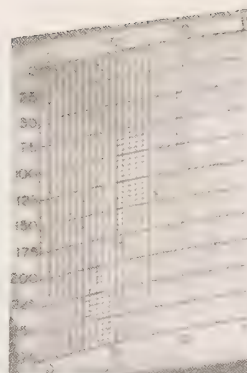
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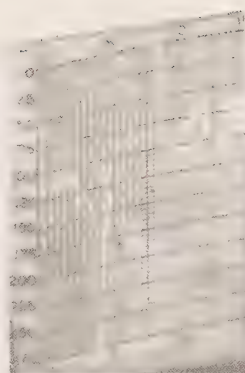
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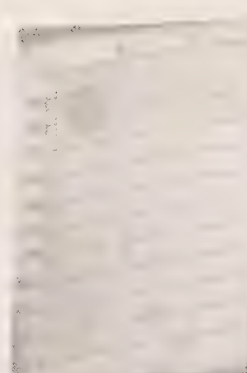
49



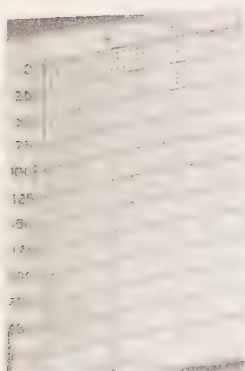
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51



52



53



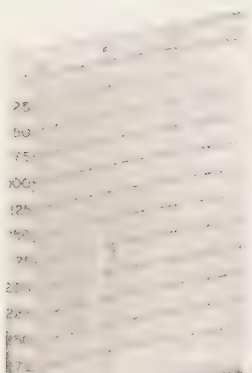
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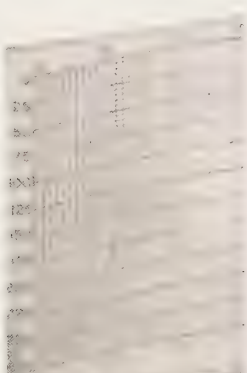
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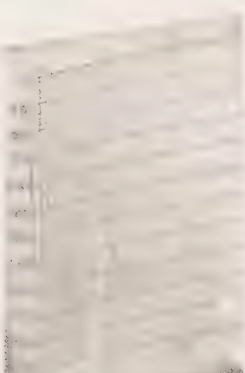
56



57



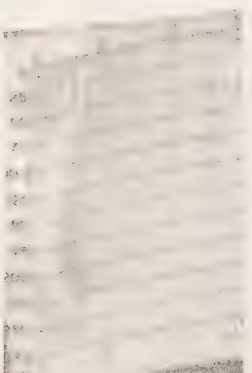
58



59



60



61



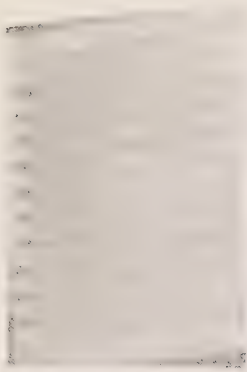
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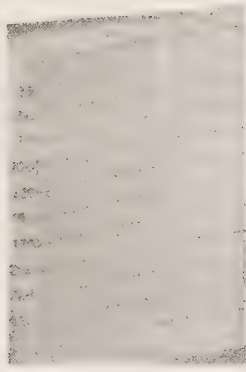
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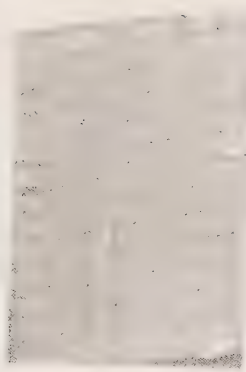
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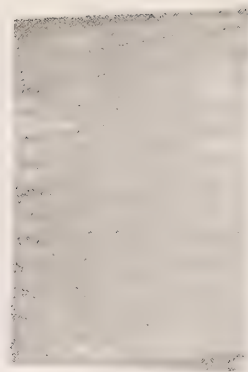
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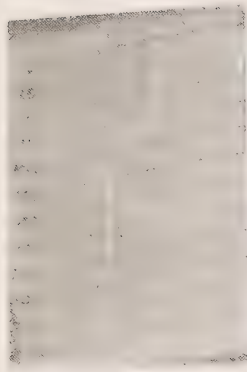
66



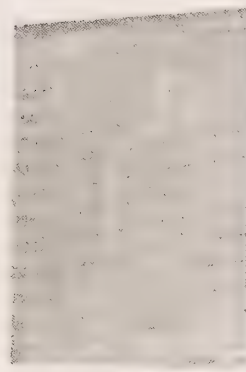
67



68



69



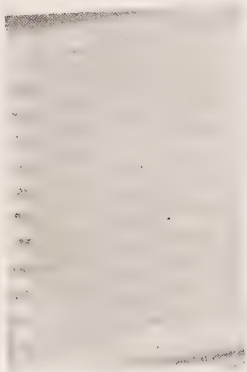
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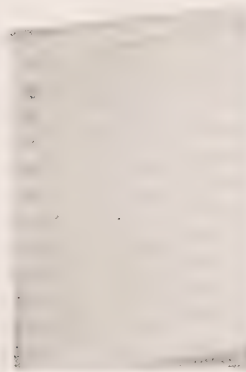
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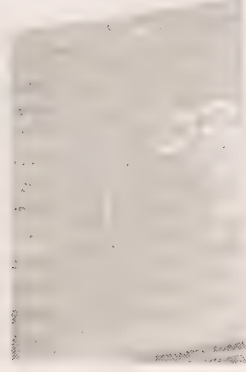
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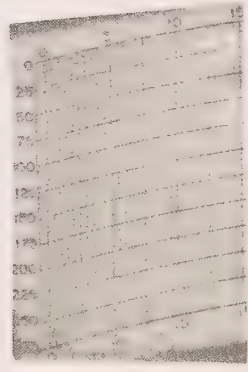
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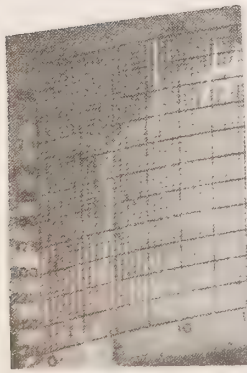
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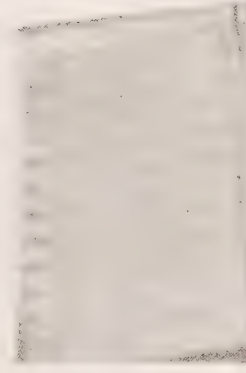
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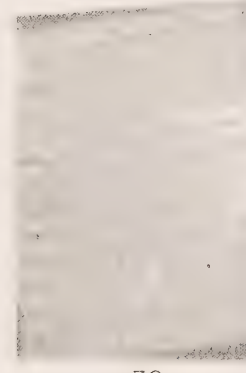
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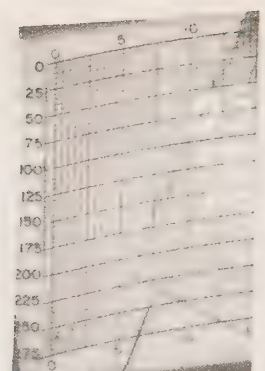
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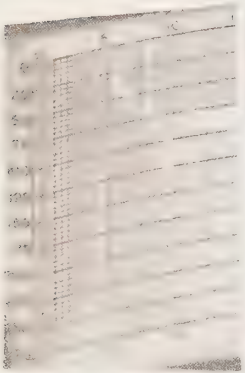
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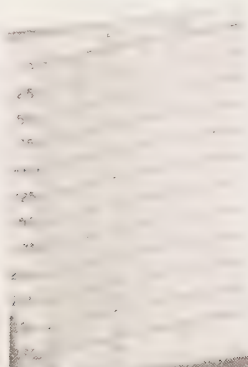
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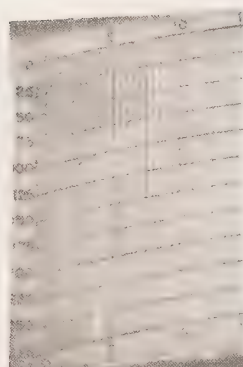
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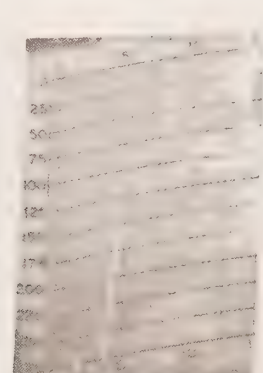
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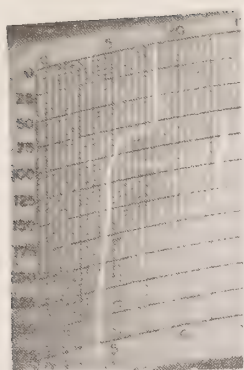
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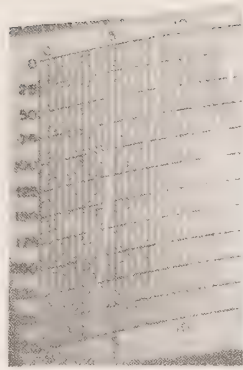
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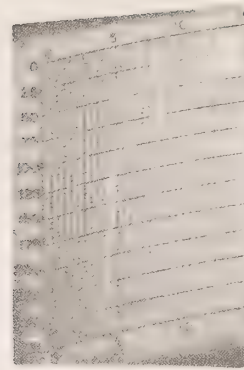
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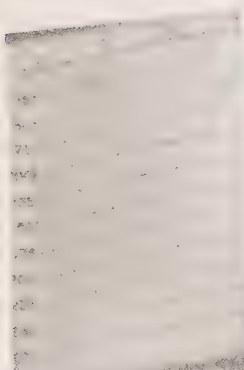
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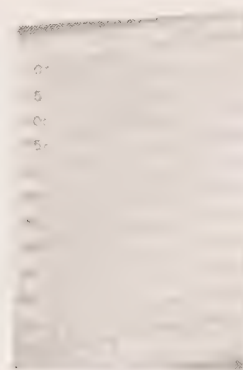
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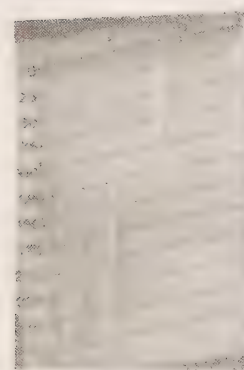
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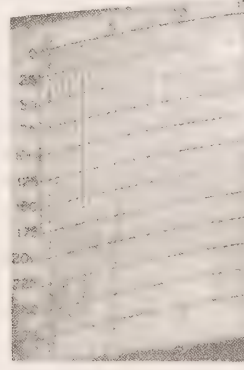
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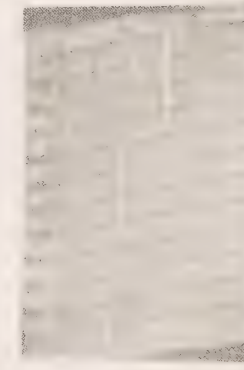
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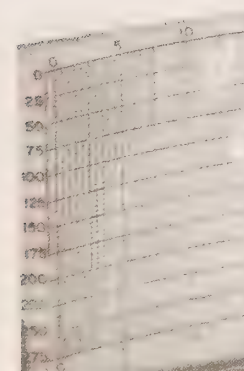
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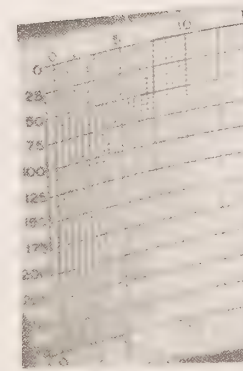
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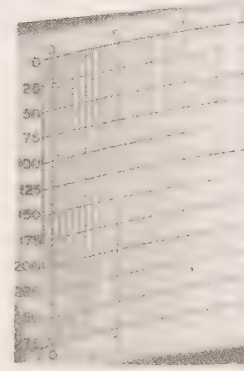
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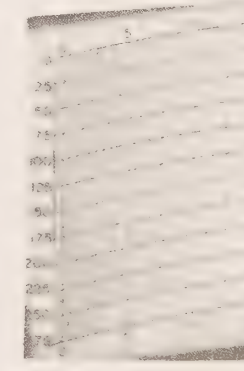
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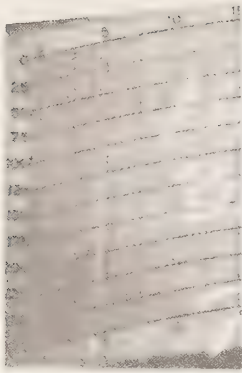
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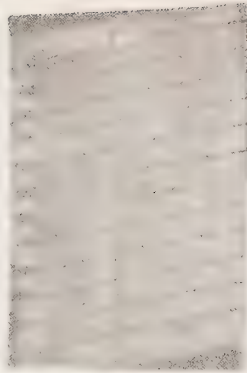
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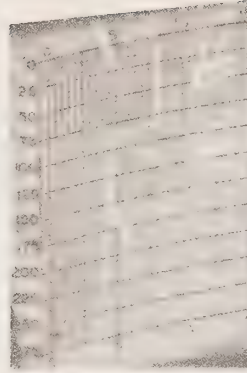
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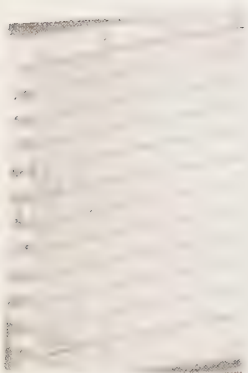
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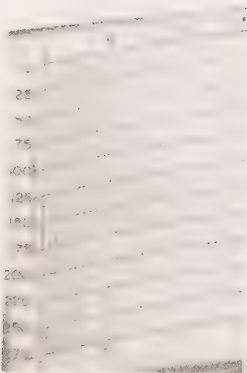
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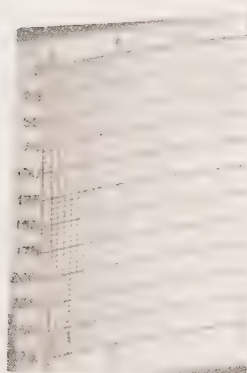
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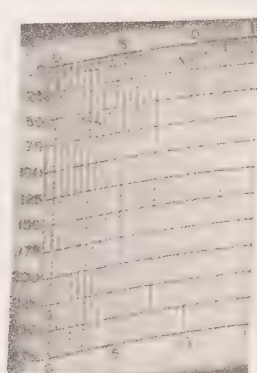
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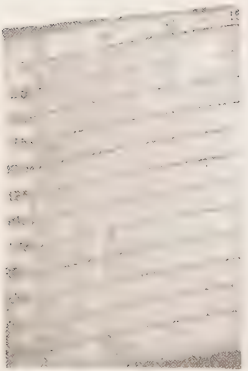
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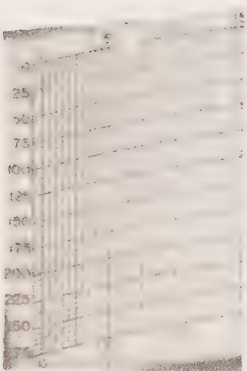
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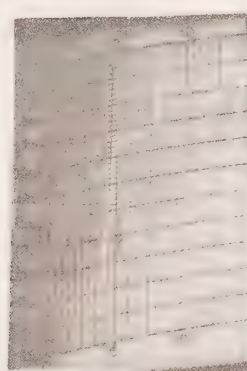
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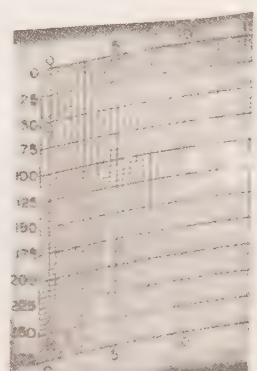
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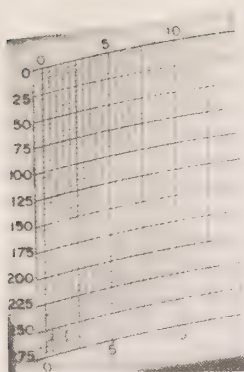
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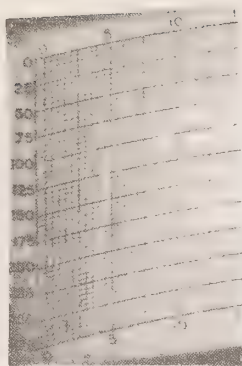
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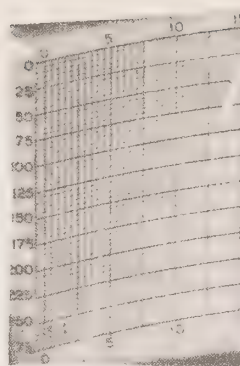
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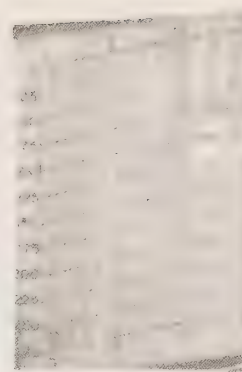
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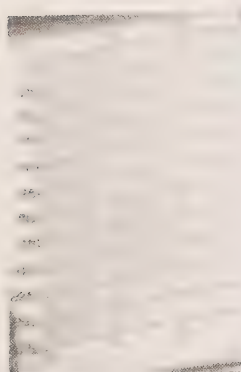
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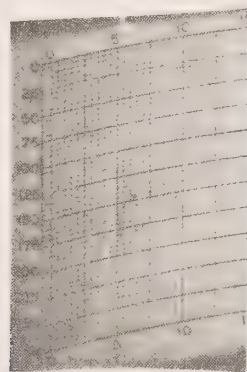
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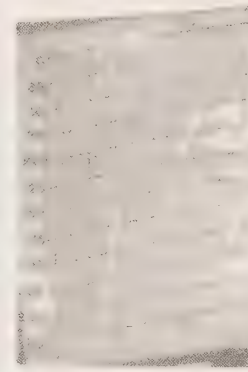
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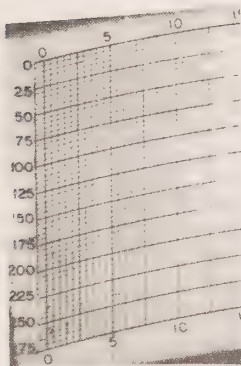
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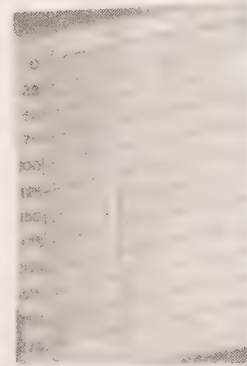
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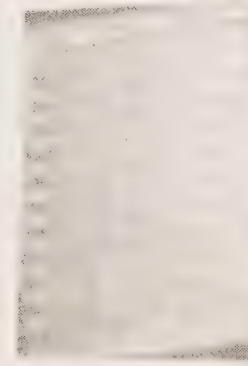
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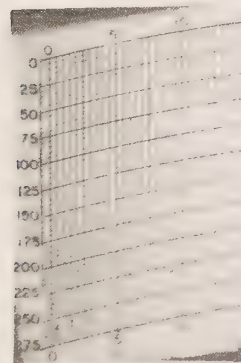
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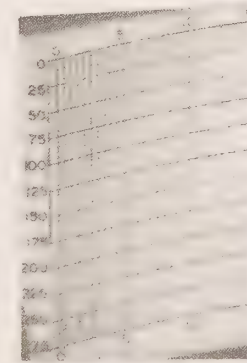
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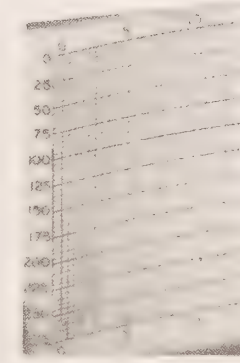
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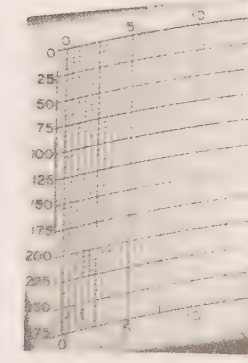
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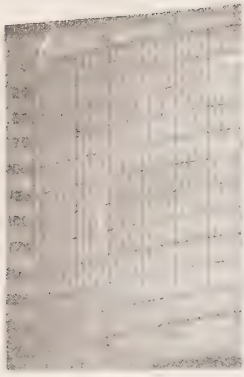
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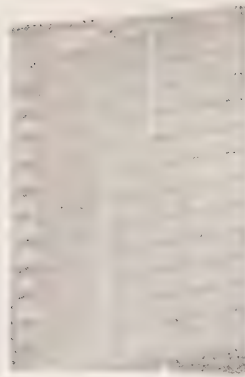
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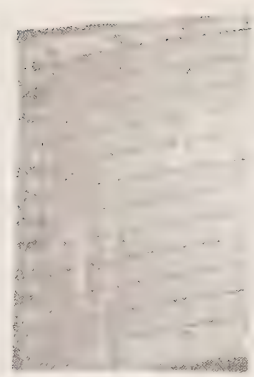
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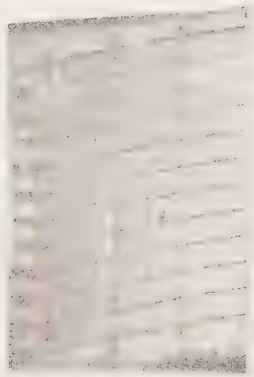
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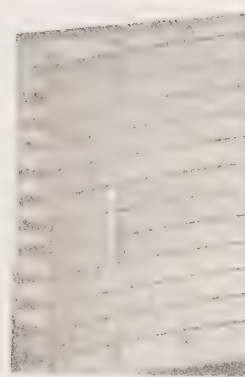
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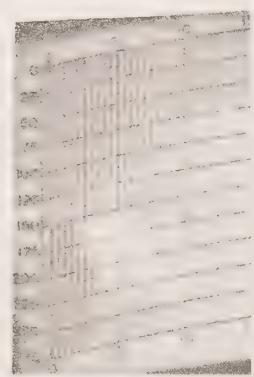
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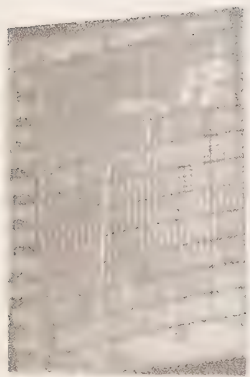
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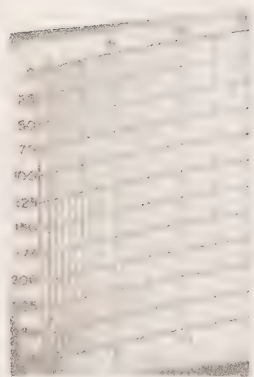
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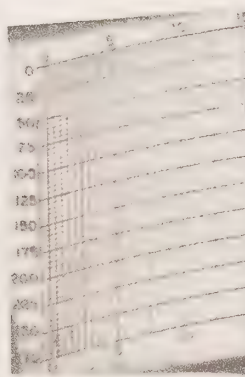
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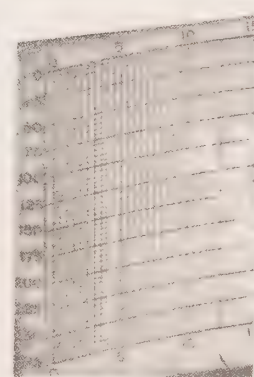
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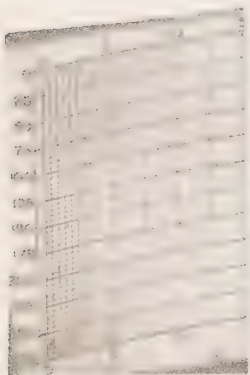
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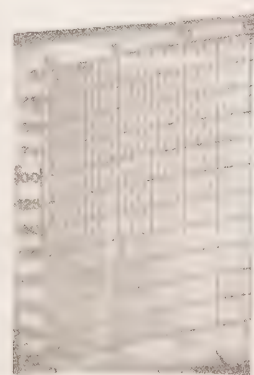
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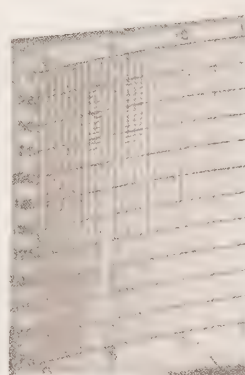
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157



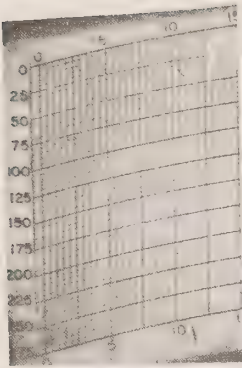
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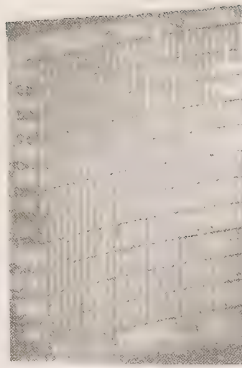
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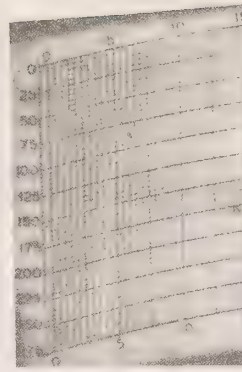
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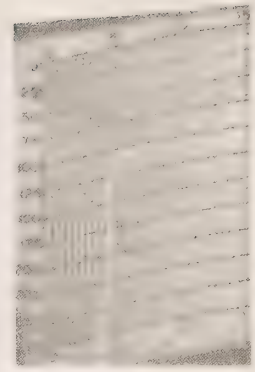
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162



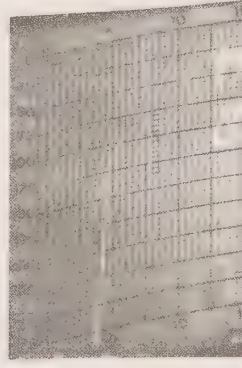
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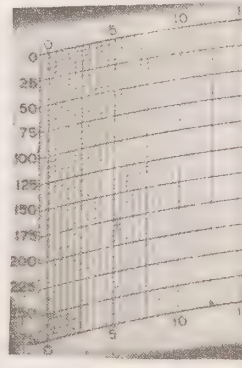
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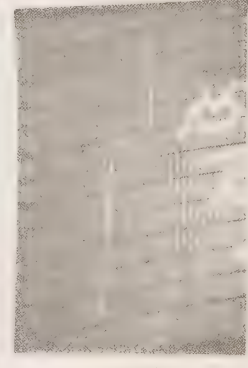
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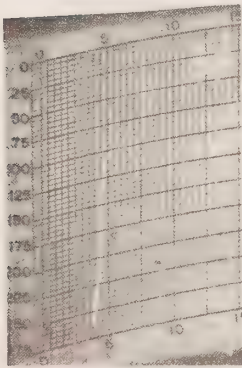
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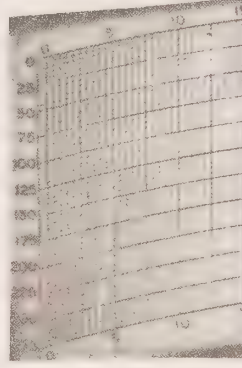
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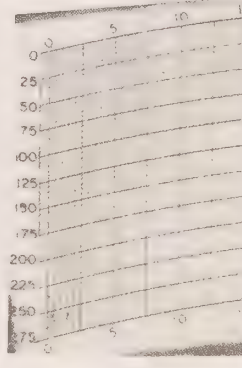
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169



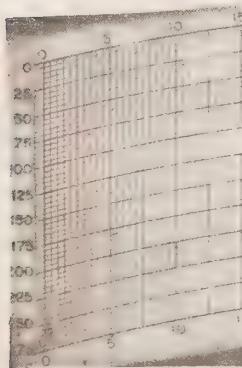
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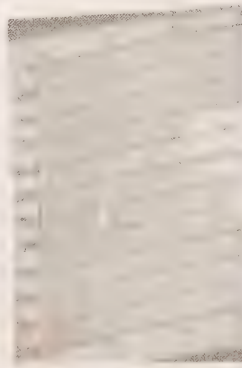
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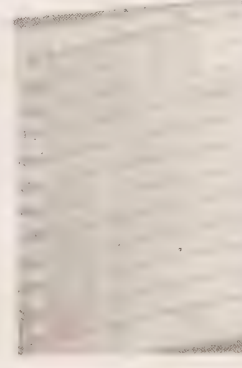
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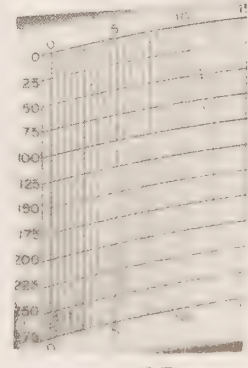
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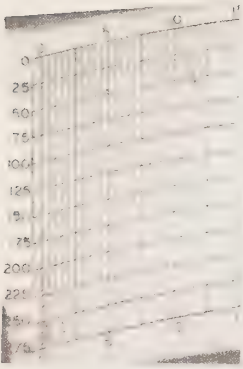
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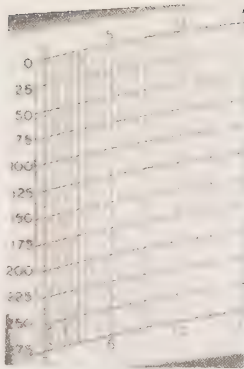
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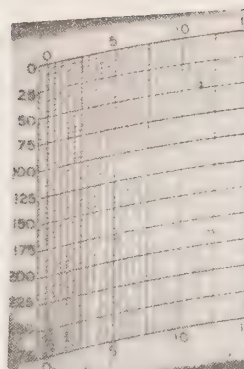
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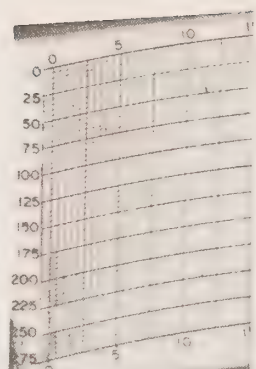
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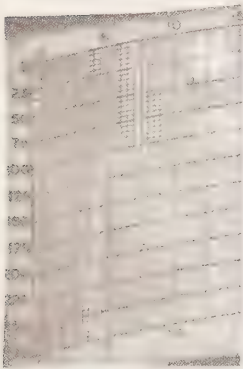
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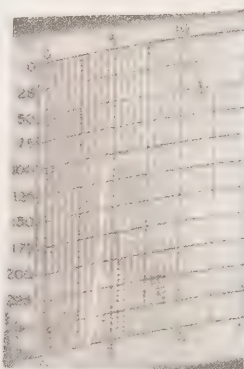
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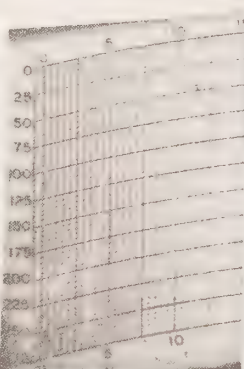
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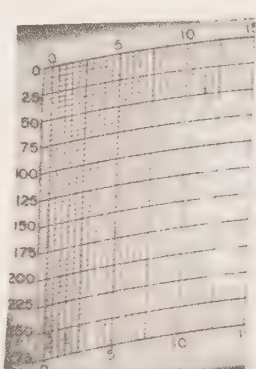
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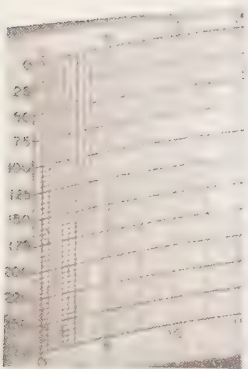
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184



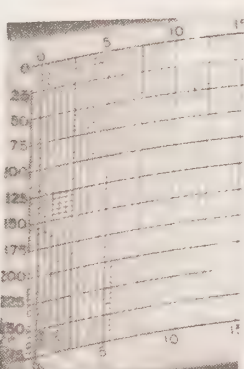
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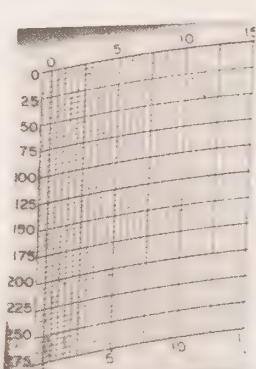
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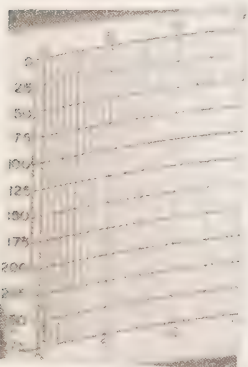
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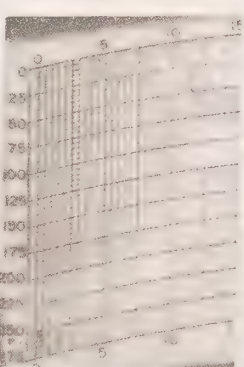
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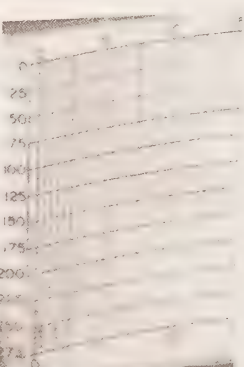
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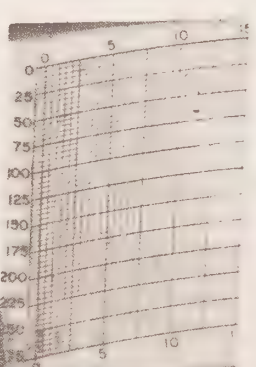
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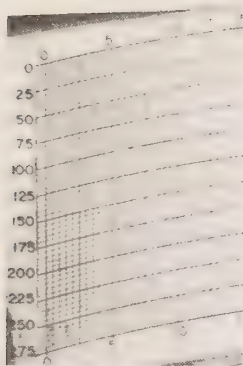
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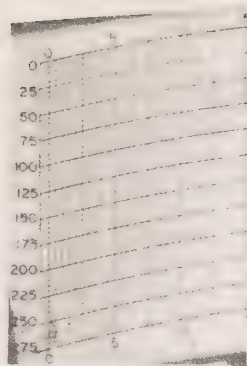
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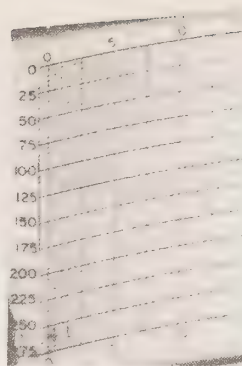
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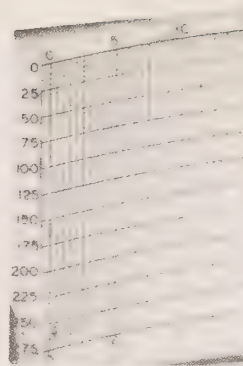
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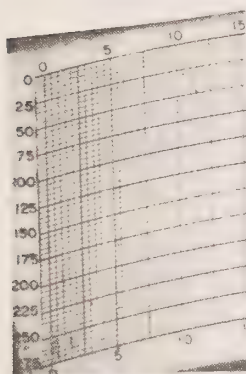
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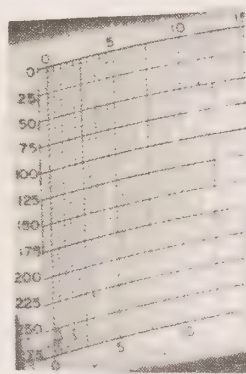
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197



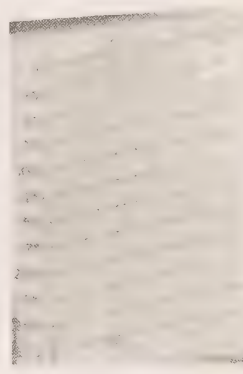
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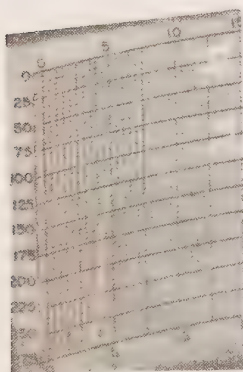
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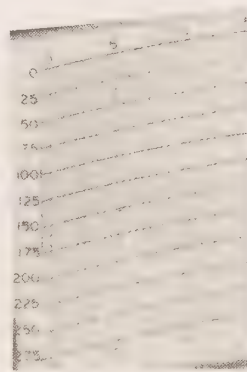
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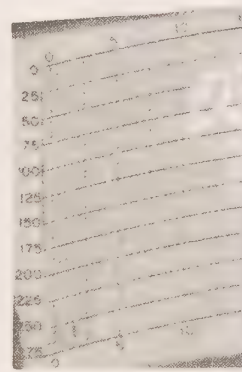
201



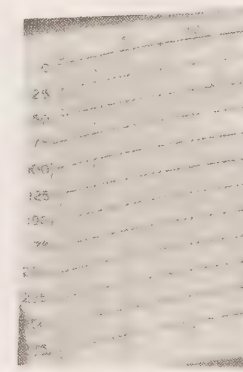
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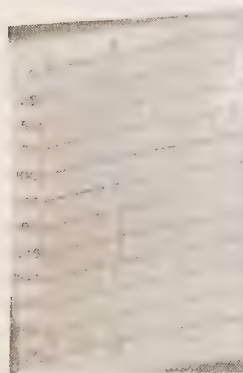
203



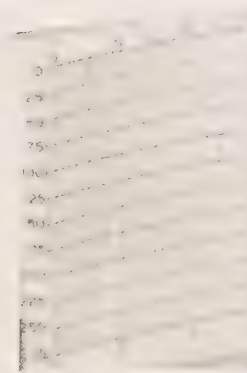
204



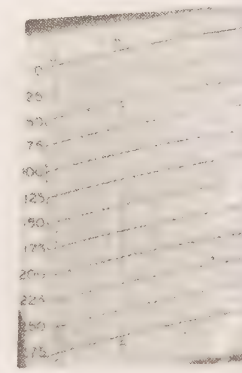
205



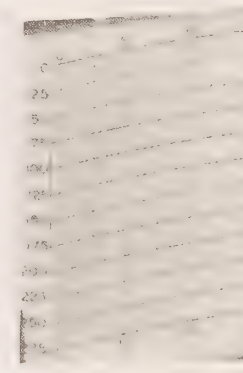
206



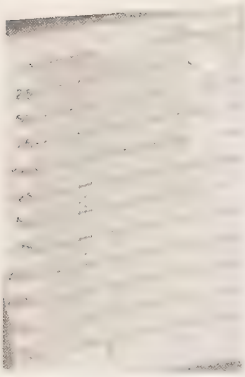
207



208



209



210



211



212



213



214



215



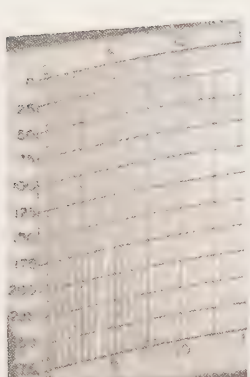
216



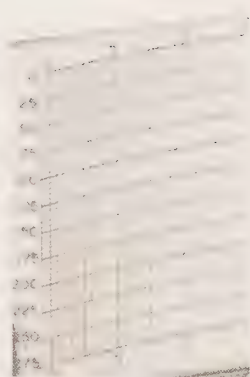
217



218



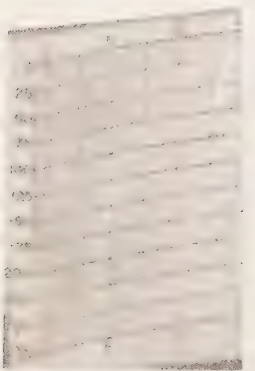
219



220



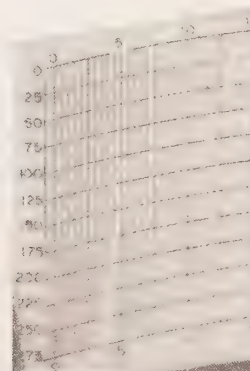
221



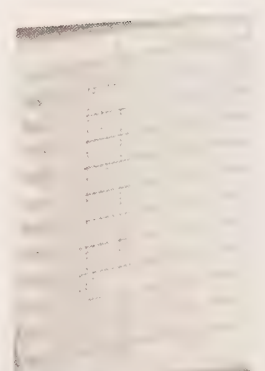
222



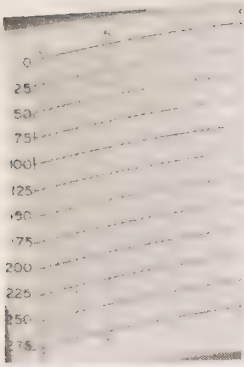
223



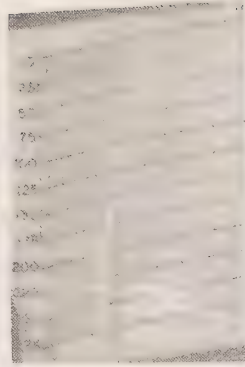
224



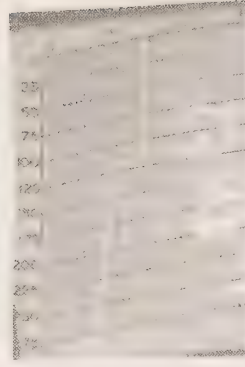
225



226



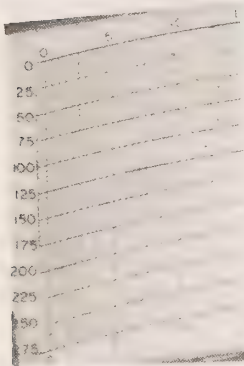
227



228



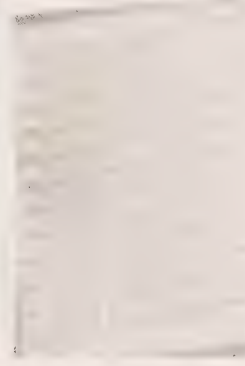
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230



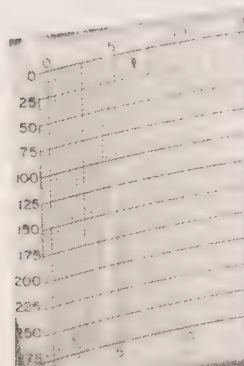
231



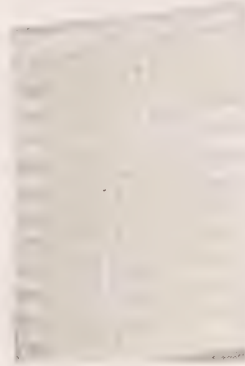
232



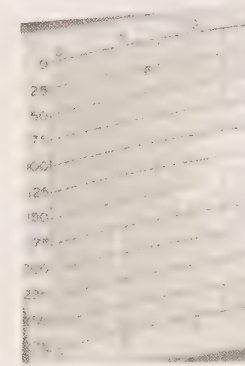
233



234



235



236



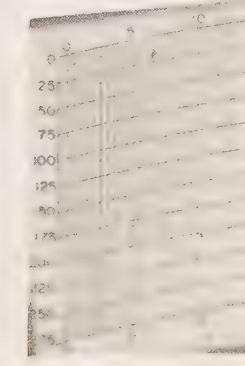
237



238



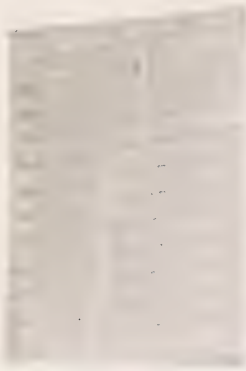
239



240



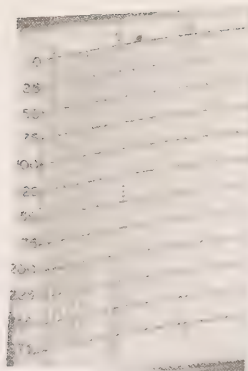
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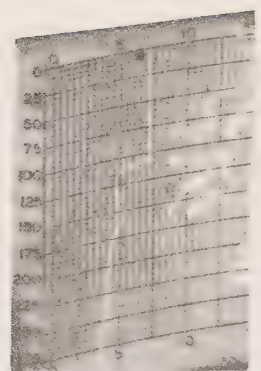
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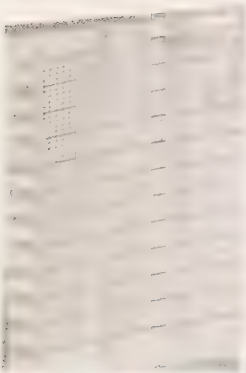
243



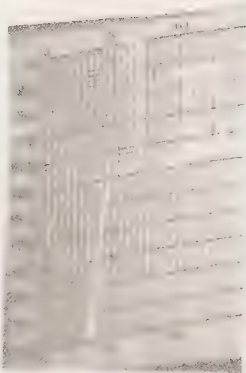
244



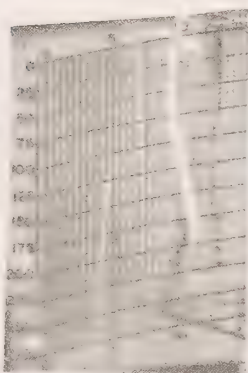
245



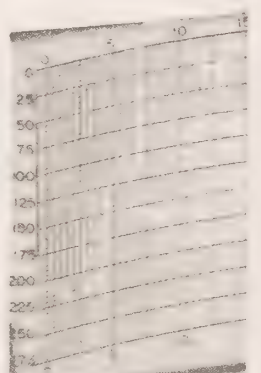
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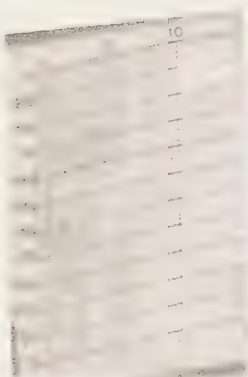
247



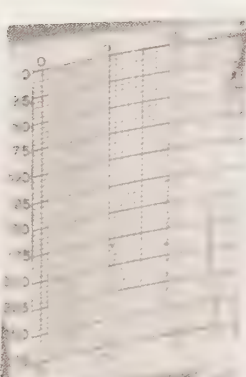
248



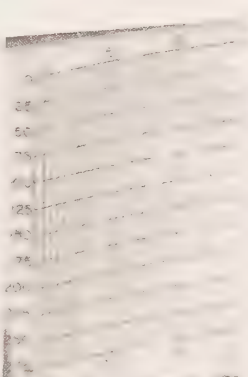
249



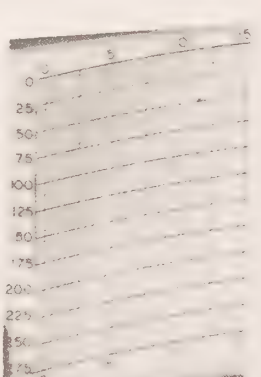
250



251



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253



254



255



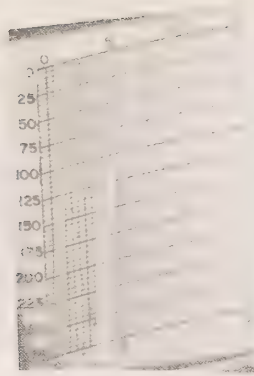
256



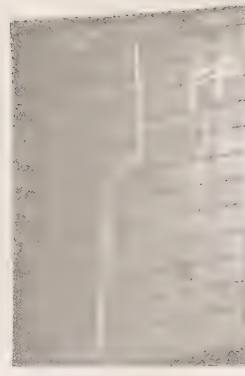
257



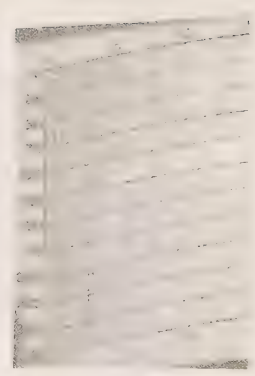
258



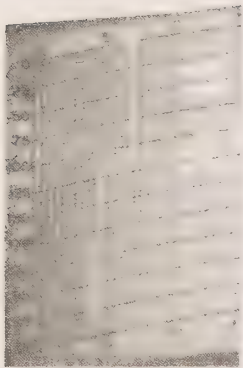
259



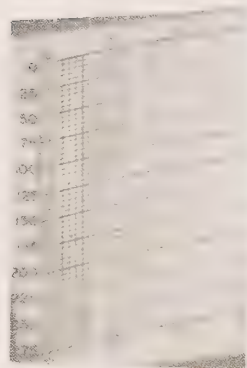
260



261



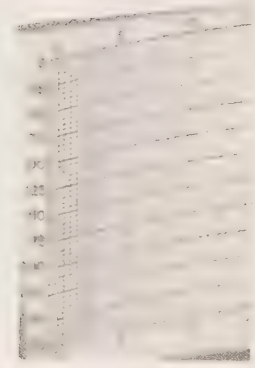
262



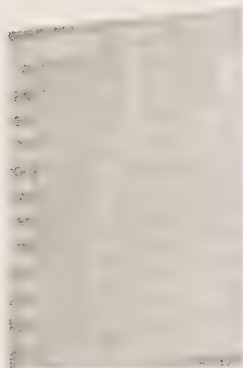
263



264



265



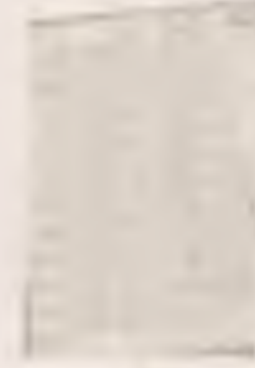
266



267



268



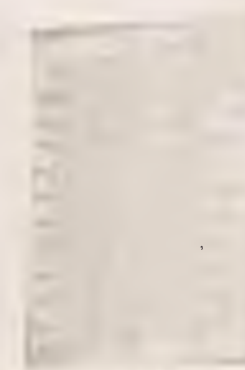
269



270



271



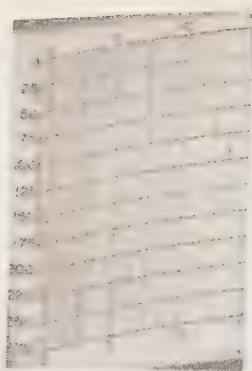
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273



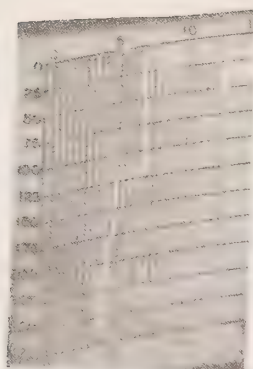
274



275



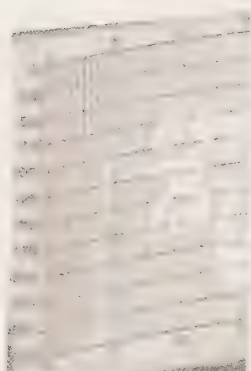
276



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281



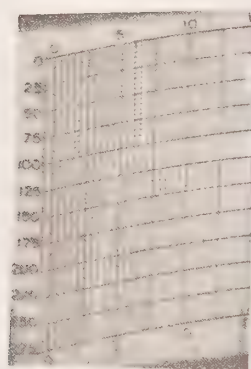
282



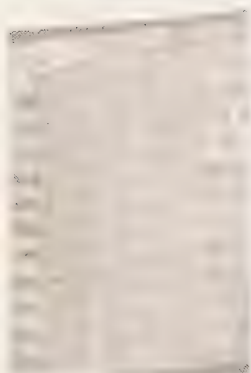
283



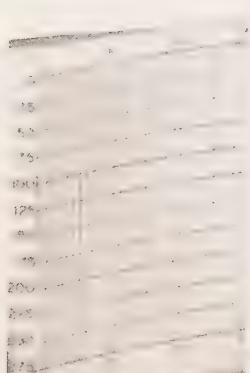
284



285



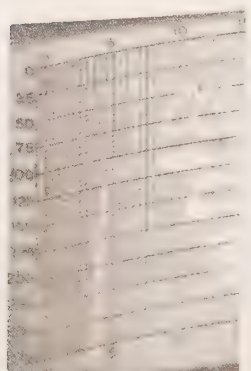
286



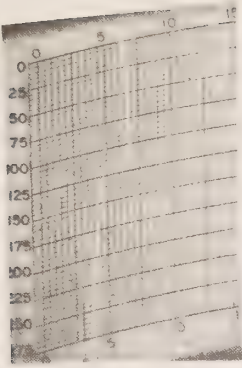
287



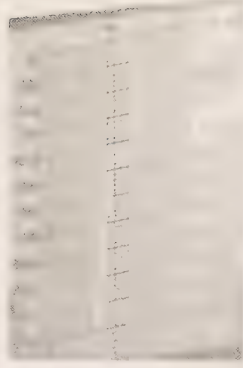
288



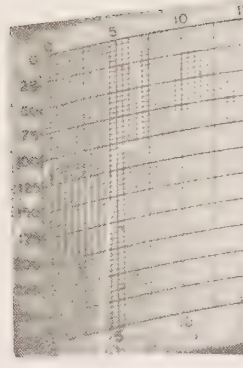
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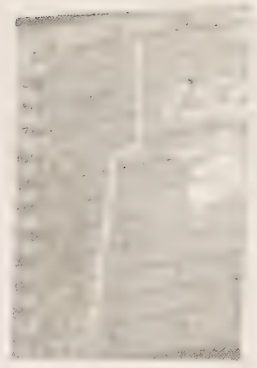
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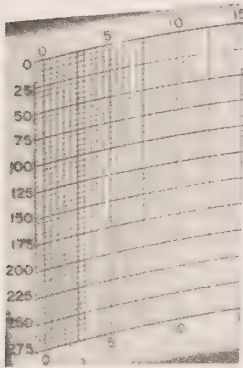
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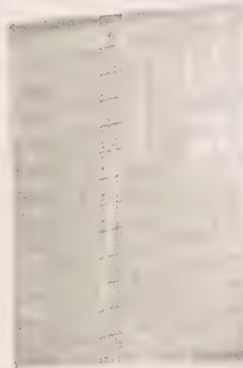
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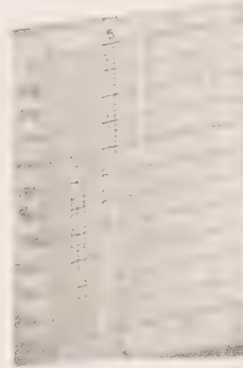
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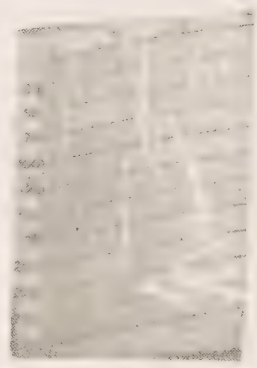
294



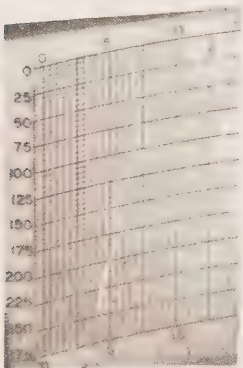
295



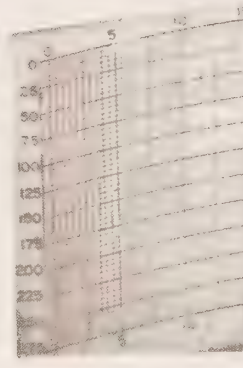
296



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CCGS "STONETOWN" Patrol No. 72

BATHYTHERMOGRAMS

TABLE 2

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
001	49	06	132	40	11	12	66	00	00	3275	-87	61	12	21		24		7	8
002	49	47	144	13	15	12	66	18	00	4221	09	02	18	25		26		7	6
003	49	56	144	20	15	12	66	21	00	4221	09	02	16	26		26		8	7
004	50	00	144	40	16	12	66	00	00	4221	05	02	20	26		26		6	8
005	50	02	144	48	16	12	66	03	00	4221	03	61	31	2X		2X		6	8
006	50	01	145	05	17	12	66	18	00	4221	-92	10	14	25		26		6	8
007	50	03	145	04	17	12	66	21	00	4221	-90	61	15	25		27		6	8
008	50	02	145	04	18	12	66	00	00	4221	-88	61	21	24		27		7	8
009	50	00	145	00	18	12	66	03	00	4221	-89	01	13	2X		2X		6	3
010	50	04	144	57	18	12	66	06	00	4221	-90	02	15	2X		2X			0
011	50	06	144	56	18	12	66	09	00	4221	-90	02	18	2X		2X		6	3
012	50	03	144	55	18	12	66	12	00	4221	-91	61	21	2X		2X		6	8
013	49	53	145	00	18	12	66	15	00	4221	-92	61	24	2X		2X		6	8
014	49	51	145	06	18	12	66	18	00	4221	-95	01	25	23		26		6	7
015	50	04	145	01	18	12	66	21	00	4221	-97	02	12	23		27		6	7
016	50	08	145	05	19	12	66	00	00	4221	-98	25	25	28		26		8	8
017	50	04	144	56	19	12	66	03	00	4221	02	10	18	2X		2X		6	8
018	50	02	144	47	19	12	66	06	00	4221	06	02	28	2X		2X		6	8
019	50	03	145	20	19	12	66	18	00	4221	09	02	23	24		26		6	8
020	50	02	145	02	19	12	66	21	00	4221	07	61	15	24		26		7	8
021	50	00	144	55	20	12	66	00	00	4221	05	51	14	22		27		7	8
022	50	02	144	55	20	12	66	03	00	4221	06	02	12	2X		2X		7	8
023	50	05	144	53	20	12	66	06	00	4221	09	02	11	2X		2X		6	4
024	50	06	144	52	20	12	66	09	00	4221	08	02	16	2X		2X		6	2
025	49	56	145	05	20	12	66	18	00	4221	-98	02	17	24		25		0	1

TABLE 2

CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
026	50	02	148	58	20	12	66	21	00	4221	-99	02	14	25	26	8	6		
027	50	05	144	57	21	12	66	00	00	4221	-98	16	20	24	26	8	7		
028	50	00	145	05	21	12	66	03	00	4221	-98	02	18	2X	2X	8	4		
029	49	56	145	13	21	12	66	06	00	4221	00	02	18	2X	2X	8	1		
030	50	00	145	06	21	12	66	09	00	4221	01	02	10	2X	2X	8	2		
031	50	03	145	04	21	12	66	12	00	4221	02	02	15	2X	2X	6	8		
032	50	04	144	57	21	12	66	15	00	4221	02	02	17	2X	2X	6	3		
033	50	05	144	55	21	12	66	18	00	4221	03	02	12	22	25	6	3		
034	50	05	145	05	22	12	66	00	00	4221	04	01	16	24	27	8	2		
035	49	55	145	12	22	12	66	03	00	4221	05	02	10	2X	2X	0	1		
036	49	59	145	06	22	12	66	06	00	4221	05	02	00	2X	2X		0		
037	49	50	145	05	22	12	66	09	00	4221	04	02	10	2X	2X	3	1		
038	49	55	145	00	22	12	66	12	00	4221	03	03	18	2X	2X	6	5		
039	49	57	145	03	22	12	66	15	00	4221	01	02	19	2X	2X	6	3		
040	50	06	145	14	23	12	66	18	00	4221	05	02	15	22	23	6	7		
041	50	08	145	00	23	12	66	21	00	4221	06	02	03	20	24	6	5		
042	50	01	145	01	24	12	66	00	00	4221	07	02	13	22	24	8	7		
043	50	02	144	57	24	12	66	03	00	4221	08	02	12	2X	2X	6	8		
044	50	01	144	54	24	12	66	06	00	4221	09	02	23	2X	2X	8	8		
045	50	06	144	50	24	12	66	09	00	4221	11	02	16	2X	2X	8	6		
046	50	01	145	04	24	12	66	12	00	4221	14	02	18	2X	2X	8	1		
047	50	00	144	59	24	12	66	15	00	4221	15	02	10	2X	2X	8	1		
048	50	02	144	57	24	12	66	18	00	4221	17	02	05	22	23	8	6		
049	50	01	144	53	24	12	66	21	00	4221	17	10	08	20	23	3	8		
050	50	01	144	50	25	12	66	00	00	4221	16	02	14	20	22	6	8		

TABLE 2

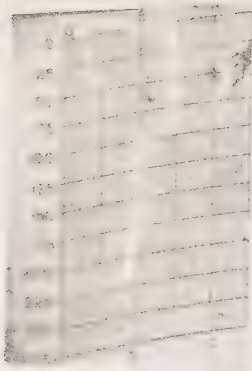
CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
051	50	05	144	54	25	12	66	03	00	4221	14	61	22	2X		2X		6	8
052	50	05	144	58	25	12	66	06	00	4221	12	61	31	2X		2X		7	8
053	50	10	145	02	26	12	66	03	00	4221	06	61	06	2X		2X		4	8
054	50	02	144	59	26	12	66	06	00	4221	09	21	13	2X		2X		7	6
055	50	01	144	56	26	12	66	09	00	4221	13	02	07	2X		2X		6	8
056	50	06	144	57	26	12	66	12	00	4221	12	02	17	2X		2X		7	2
057	49	50	145	04	28	12	66	03	00	4221	14	51	20	2X		2X		7	8
058	49	47	145	13	28	12	66	06	00	4221	11	51	17	2X		2X		7	8
059	49	52	145	07	28	12	66	09	00	4221	08	02	27	2X		2X		7	8
060	49	44	145	22	29	12	66	00	00	4221	20	02	11	28		2X		6	8
061	49	53	145	10	29	12	66	03	00	4221	19	02	07	2X		2X		6	8
062	49	54	145	06	29	12	66	06	00	4221	18	61	20	2X		2X		6	8
063	49	57	144	57	29	12	66	09	00	4221	14	61	24	2X		2X		7	8
064	50	06	144	52	29	12	66	12	00	4221	14	21	30	2X		2X		4	8
065	50	00	144	58	29	12	66	15	00	4221	16	61	16	2X		2X		4	8
066	49	58	144	59	29	12	66	18	00	4221	16	43	21	23		25		8	9
067	49	55	145	01	29	12	66	21	00	4221	15	45	20	25		2X		8	9
068	49	57	145	10	31	12	66	18	00	4221	17	02	33	29		2X		6	1
069	50	08	145	01	01	01	67	18	00	4221	07	51	22	23		24		7	8
070	50	00	144	57	01	01	67	21	00	4221	04	51	23	24		24		7	8
071	49	56	144	55	02	01	67	00	00	4221	03	43	21	24		22		8	9
072	49	54	145	05	02	01	67	03	00	4221	02	02	22	2X		2X		6	3
073	49	59	145	35	05	01	67	00	00	4221	27	02	30	25		24		3	8
074	49	57	145	30	05	01	67	03	00	4221	26	02	23	2X		2X		3	8
075	50	01	145	25	05	01	67	06	00	4221	24	02	26	2X		2X		3	8

TABLE 2

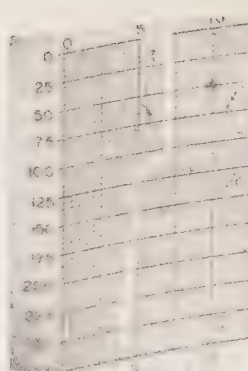
CON No	LAT		LONG		DATE			GMT		DEPTH Fms Chart	BAR Mbs	WW Code	WIND Amt	W-1		W-2		CLOUD	
	Deg	Min	Deg	Min	Day	Mon	Yr	Hrs	Min					P	H	P	H	T	A
076	50	02	145	01	05	01	67	09	00	4221	22	02	20	2X		2X		6	8
077	49	53	145	23	06	01	67	18	00	4221	10	02	14	23		26		6	8
078	50	00	145	07	06	01	67	21	00	4221	07	10	14	23		26		7	8
079	50	05	145	05	07	01	67	00	00	4221	00	61	24	25		27		4	8
080	50	00	145	10	08	01	67	03	00	4221	15	02	05	2X		2X		8	7
081	50	00	145	02	08	01	67	06	00	4221	14	02	09	2X		2X		6	8
082	49	58	145	03	08	01	67	09	00	4221	11	02	23	2X		2X		6	8
083	50	06	144	27	09	01	67	00	00	4221	-93	61	13	22		26		7	8
084	50	06	144	42	09	01	67	03	00	4221	-92	61	07	2X		2X		7	8
085	50	00	144	53	09	01	67	06	00	4221	-91	61	11	2X		2X		4	8
086	50	01	144	58	09	01	67	09	00	4221	-89	61	07	2X		2X		4	8
087	49	57	145	05	09	01	67	12	00	4221	-86	61	00	2X		2X		4	8
088	50	01	145	06	09	01	67	15	00	4221	-83	61	15	2X		2X		4	8
089	49	59	145	05	09	01	67	18	00	4221	-81	61	12	22		24		7	8
090	49	59	145	00	09	01	67	21	00	4221	-81	61	16	22		24		7	8



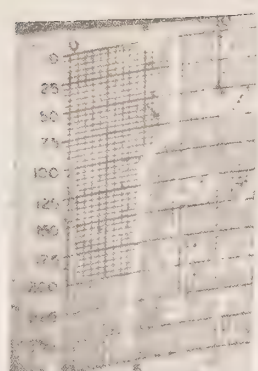
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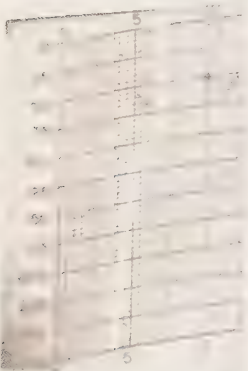
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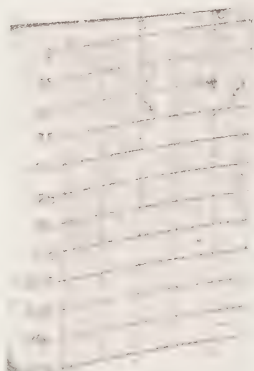
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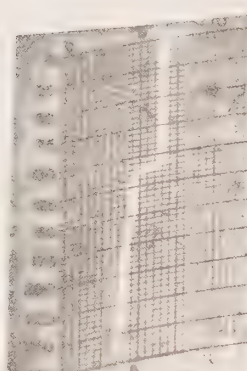
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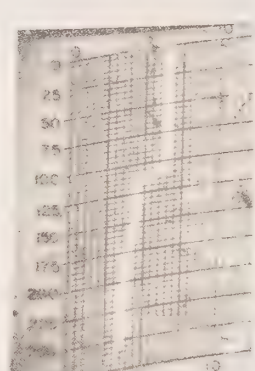
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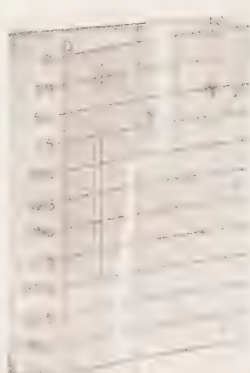
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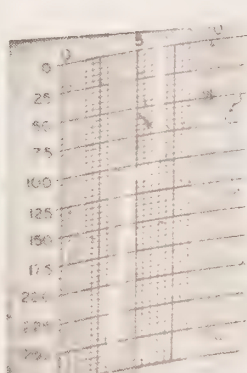
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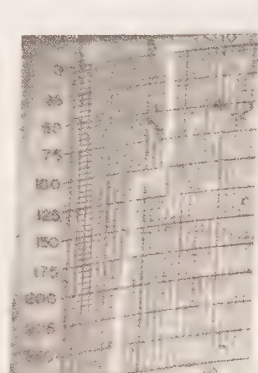
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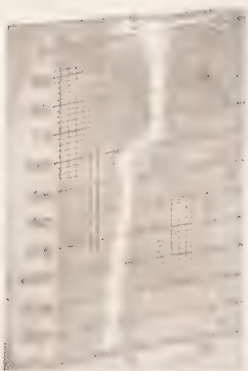
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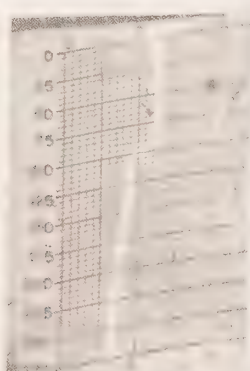
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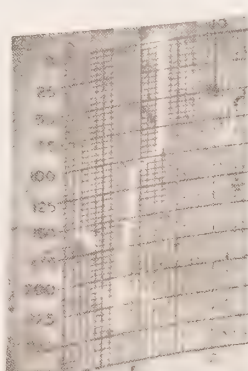
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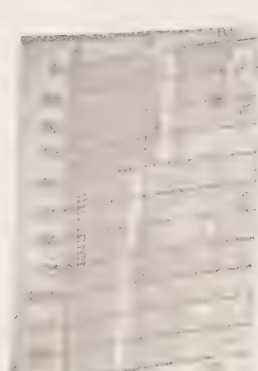
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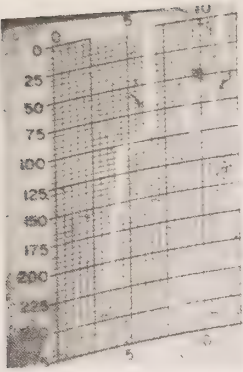
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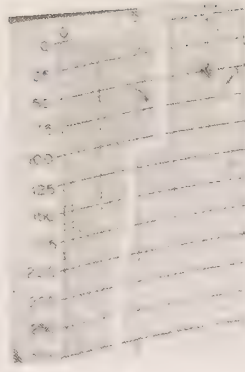
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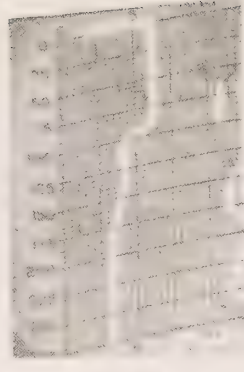
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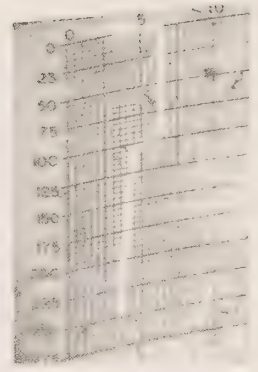
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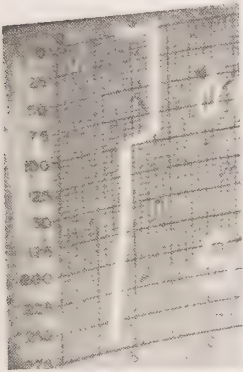
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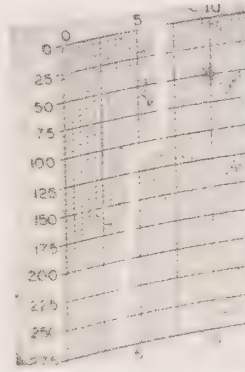
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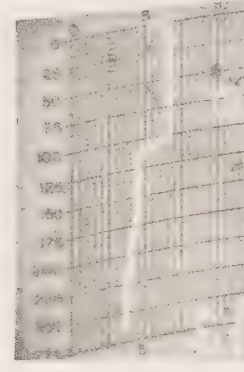
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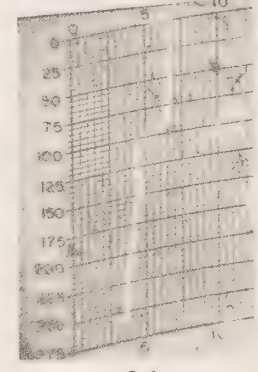
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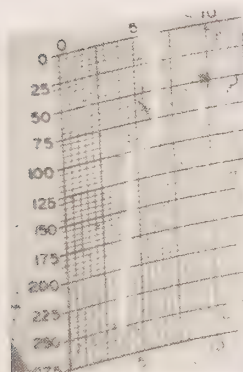
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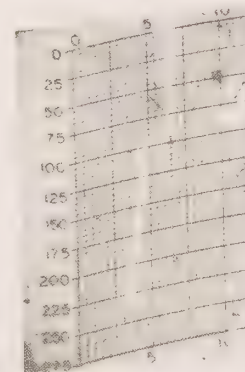
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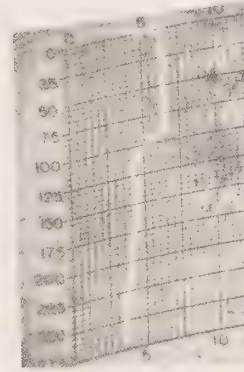
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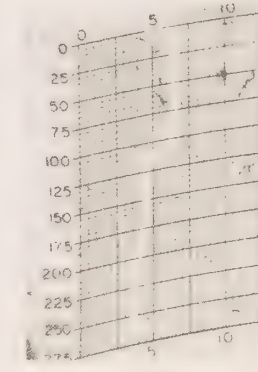
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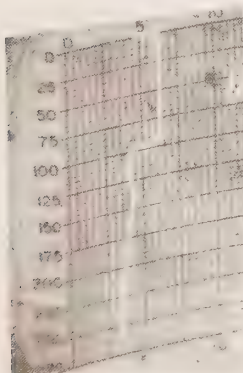
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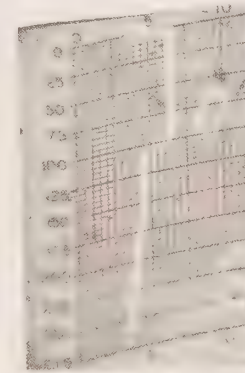
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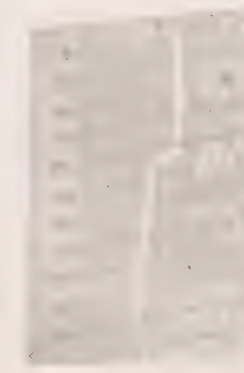
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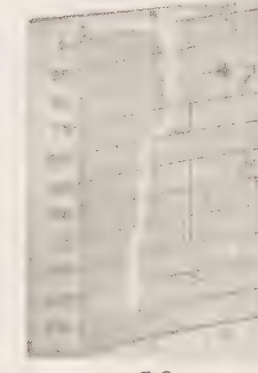
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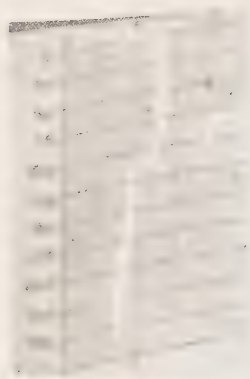
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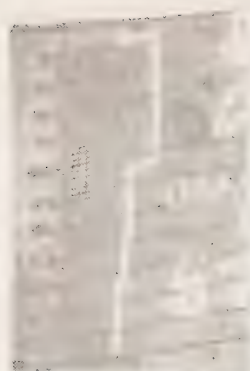
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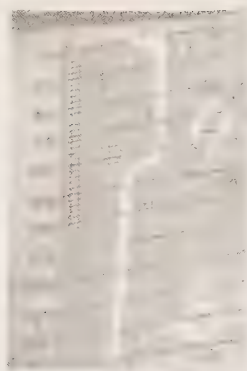
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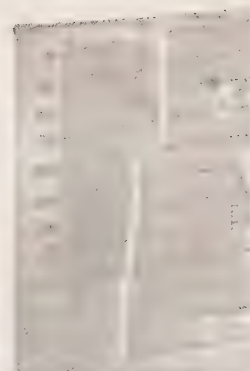
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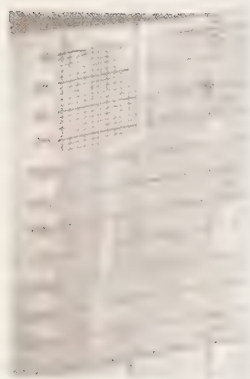
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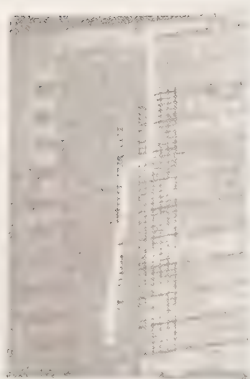
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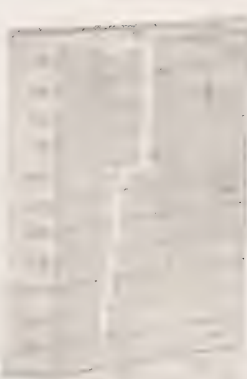
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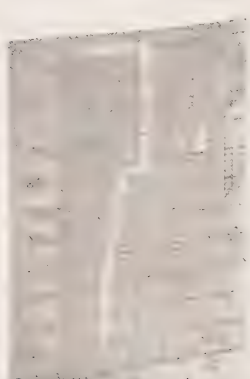
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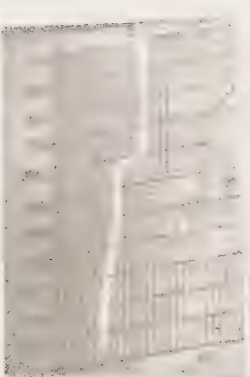
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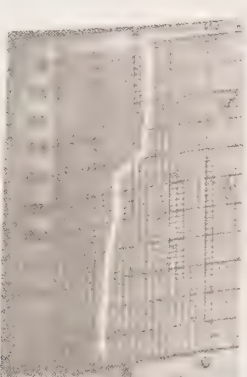
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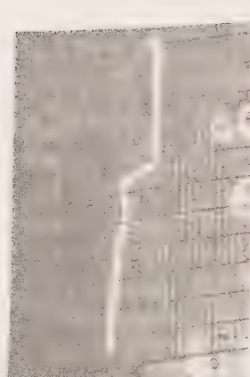
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42



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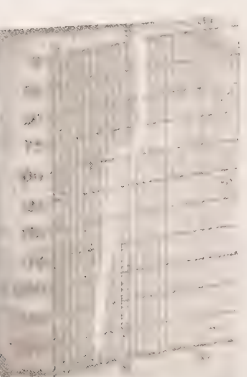
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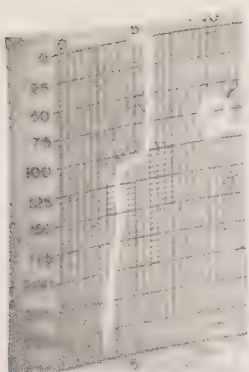
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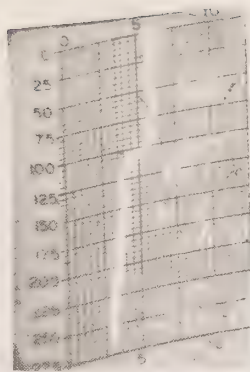
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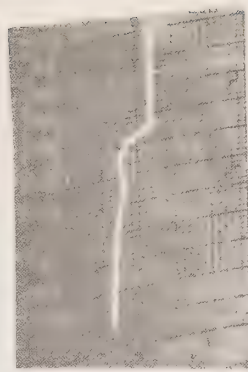
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49



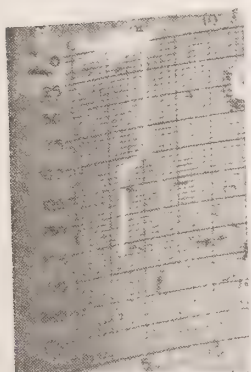
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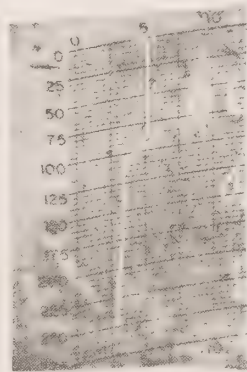
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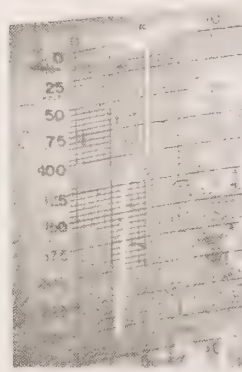
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53



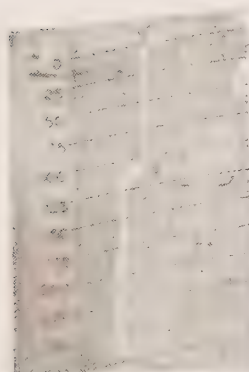
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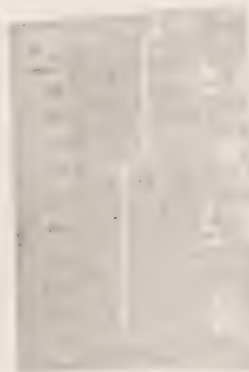
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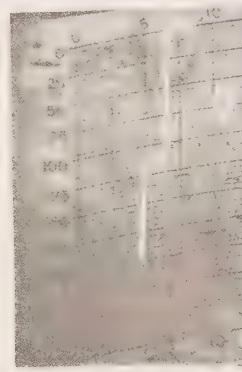
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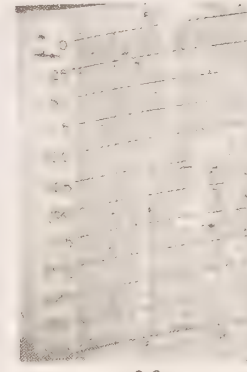
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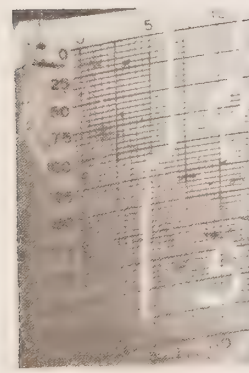
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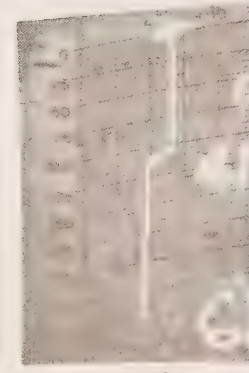
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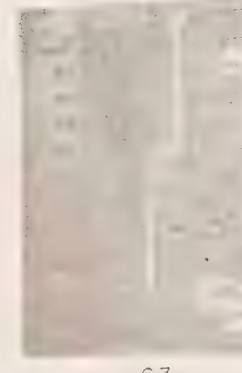
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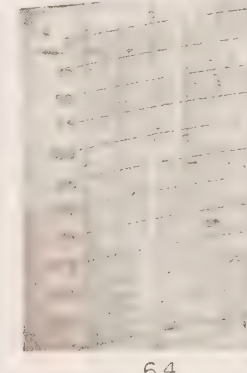
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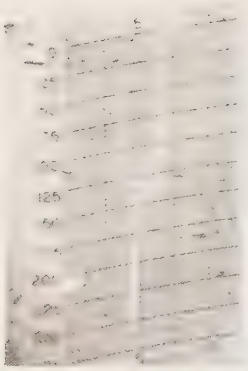
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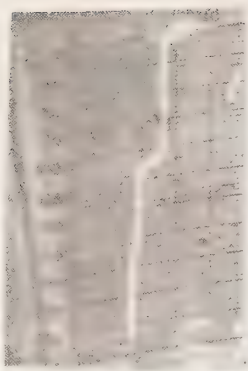
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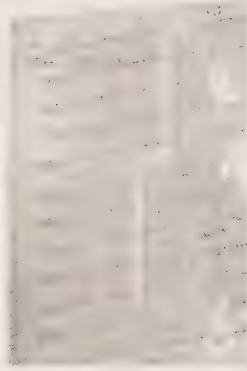
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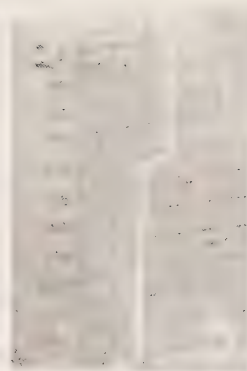
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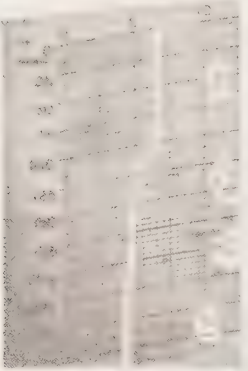
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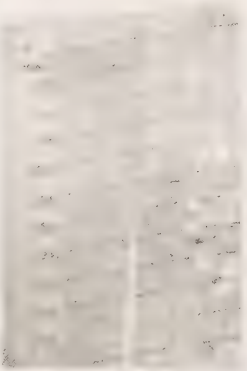
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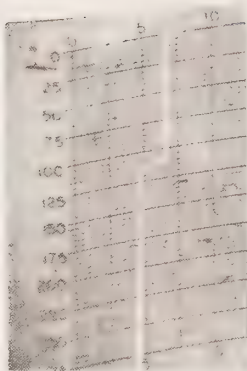
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70



71



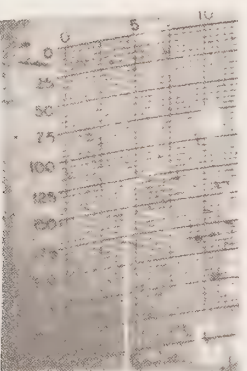
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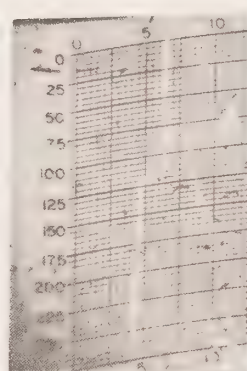
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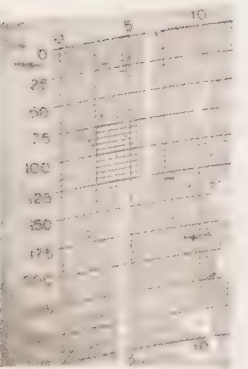
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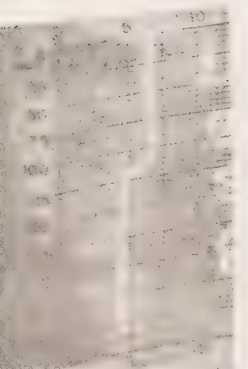
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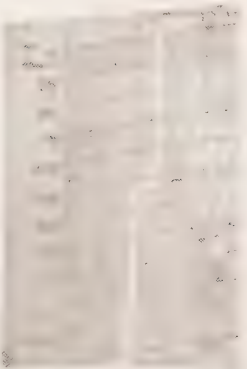
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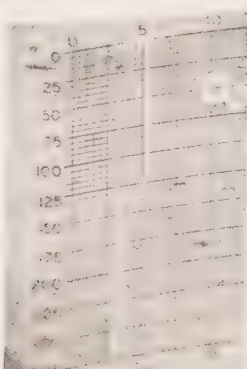
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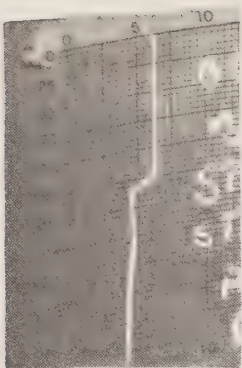
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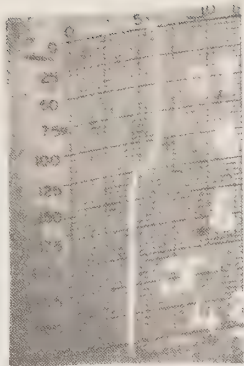
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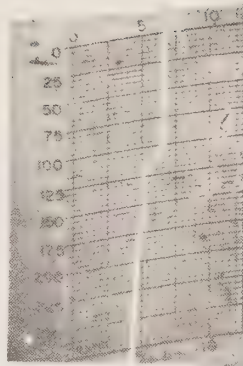
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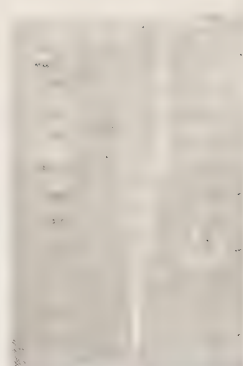
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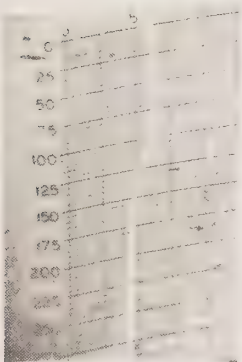
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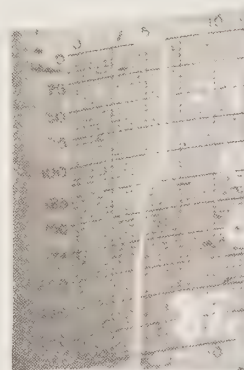
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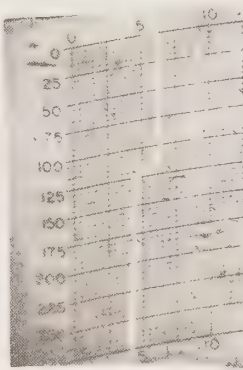
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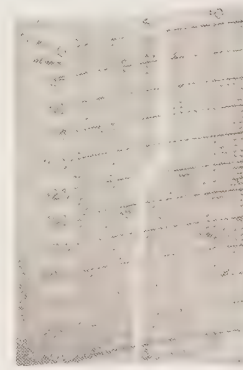
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86



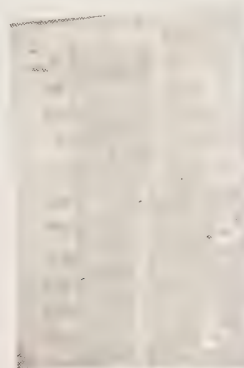
87



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89



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SECTION V

Surface Salinity Data

Surface Salinity Observations

Date-Time	Position		Salinity
G.M.T.	Latitude	Longitude	‰
CCGS "St. Catharines", Survey P-66-4			
66-11-01-18.4	49°27' n	144°25' w	32.560
02-06.0	50°00'	145°00'	32.542
03-00.0	49°56'	145°00'	32.546
04-00.0	49°54'	144°59'	32.538
04-12.0	50°02'	144°53'	32.522
05-00.0	49°58'	144°53'	32.561
06-00.0	49°55'	144°52'	32.554
07-00.0	49°57'	144°54'	32.528
08-00.0	50°02'	144°53'	32.530
09-00.0	49°59'	144°58'	32.584
10-00.0	49°55'	145°02'	32.569
11-00.0	50°02'	145°10'	32.541
12-00.0	50°15'	145°08'	32.613
13-00.0	49°58'	145°00'	32.567
14-00.0	50°12'	145°13'	32.609
15-00.0	49°53'	145°04'	32.718
16-00.0	49°54'	145°00'	32.604
18-00.0	50°00'	145°00'	32.599
19-00.0	50°06'	144°47'	32.584
20-00.0	50°18'	145°06'	32.889
21-00.0	49°57'	145°02'	32.777
22-00.0	49°53'	145°05'	32.651
23-00.0	49°45'	145°05'	32.608
24-00.0	50°04'	144°50'	32.598
25-00.0	49°56'	144°50'	32.605
26-00.0	49°54'	145°09'	32.613
27-00.0	49°57'	145°15'	32.627
28-00.0	49°56'	145°06'	32.636
29-00.0	49°53'	145°05'	32.609
66-12-01-00.0	50°47'	143°36'	32.580
02-00.0	49°56'	145°02'	32.647
03-00.0	49°53'	144°55'	32.592
04-00.0	49°58'	145°03'	32.599
05-00.0	49°55'	145°00'	32.739
06-00.0	50°00'	145°00'	32.669
07-00.0	49°45'	144°52'	32.653
08-00.0	49°50'	144°45'	32.637
09-00.0	50°01'	145°02'	32.620
10-00.0	49°58'	145°05'	32.587
11-00.0	50°07'	145°06'	32.607
12-00.0	50°00'	144°53'	32.611
13-00.0	49°57'	145°25'	32.597

Surface Salinity Observations

Date-Time G.M.T.	Position		Salinity
	Latitude	Longitude	‰
CCGS "St. Catharines", Survey P-66-4			
66-12-14-00.0	50°00' n	145°10' w	32.601
15-00.0	50°00'	144°10'	32.617
15-10.0	49°45'	141°39'	32.550
15-12.5	49°42'	140°40'	32.496
15-15.0	49°38'	139°40'	32.508
15-19.0	49°34'	138°40'	32.523
16-00.0	49°26'	136°40'	32.457
16-03.3	49°22'	135°38'	32.391
16-06.0	49°18'	134°40'	32.474
16-12.0	49°12'	132°40'	32.296
16-15.0	49°04'	131°40'	32.343
16-17.0	49°00'	130°40'	32.291
17-00.0	48°51'	128°30'	32.280
17-02.0	48°47'	127°40'	32.208
17-05.0	48°42'	126°40'	32.269
17-07.5	48°38'	126°00'	32.328
17-21.0	48°33'	125°32'	32.124

Surface Salinity Observations

Date-Time	Position		Salinity
G.M.T.	Latitude	Longitude	‰
CCGS "Stonetown", Patrol No. 72			
66-12-16-00.0	50°00' n	144°40' w	32.610
17-00.0	50°03'	145°04'	32.586
18-00.0	50°02'	145°04'	32.452
19-00.0	50°08'	145°05'	32.582
20-00.0	50°00'	144°55'	32.601
21-00.0	50°05'	144°57'	32.604
22-00.0	50°05'	145°05'	32.592
23-00.0	50°06'	145°14'	32.615
24-00.0	50°01'	145°01'	32.591
25-00.0	50°01'	144°50'	32.615
26-00.0	50°10'	145°02'	32.503
27-00.0	50°06'	144°57'	32.561
28-00.0	49°50'	145°04'	32.555
29-00.0	49°44'	145°22'	32.655
30-00.0	49°55'	145°01'	32.591
31-00.0	49°57'	145°10'	32.578
67-01-01-00.0	50°08'	145°01'	32.624
02-00.0	49°56'	144°55'	32.593
05-00.0	49°59'	145°35'	32.599
06-00.0	49°53'	145°23'	32.595
07-00.0	50°05'	145°05'	32.518
08-00.0	50°00'	145°10'	32.585
09-00.0	50°06'	144°27'	32.500

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